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TO THE

## IDENTIFICATION

OF

## INSECTS.

EDITED BY  
CHARLES OWEN WATERHOUSE.

LITHOGRAPHS BY  
EDWIN WILSON.

VOL. I.

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## PREFACE.

IN issuing this first volume of 'Aid,' I wish to call attention to the following sentence in my Prospectus, viz:—"There will be a Systematic Index, together with such remarks on the insects as may appear absolutely necessary, but the Editor is anxious to avoid adding to the already voluminous Entomological Literature; the present work being intended to elucidate that which has been already written." I mention this for the reason that some persons have wished that the Plates were accompanied by Letter-press or descriptions. To reproduce all the original descriptions would have added so greatly to the expense of producing the work, that it would have been impossible to have given the number of Plates at the small price now asked; and extracts from descriptions so frequently lead to error that I have determined in every case to refer to the original works for all information. In preparing the Plates, however, a few notes on some of the species have (as I anticipated) appeared to me to be necessary, and these I give at the end of the Systematic Index.

With the exception of Plates 1, 4, 16, 17, 20, 23, 27, 31, 32, 42, 48, 59, 61, 89 and 98, all the figures are taken from original types. Plate 18 is figured from the type in the University Museum at Oxford. Plates 30, 37, 39, 47, 70 and 97, are from types in the Museum of the

Royal Dublin Society. The remainder are from specimens in the possession of the following gentlemen, to whom I tender my sincere thanks for the kindness with which they have placed their specimens at my disposal, and for the interest which they have taken in the work.

Mr. H. W. Bates, plate 60.

Mr. A. G. Butler, plate 21.

Mr. W. L. Distant, plates 6, 7, 24, 41, 46, 49, 50, 58, 82, 91, 100.

Mr. T. Edmonds, plates 79, 80, 87, 96.

Mr. A. Fry, plates 2, 5, 14.

Rev. H. S. Gorham, plate 45.

Mr. Higlett, plate 88.

Mr. Horniman, plates 55, 69.

Baron Hügel, plate 36.

Mr. M. Jacoby, plates 54, 62.

Mr. E. W. Janson, plates 43, 51, 52, 53, 72, 73, 76, 84, 85, 86, 95.

Mr. O. Janson, plates 29, 59, 94.

Mr. W. F. Kirby, plate 38.

Mr. R. McLachlan, plates 65, 66, 67, 71, 90, 99.

Mr. R. Meldola, plate 63.

Mr. F. Moore, plates 8, 9, 10, 11, 12, 56, 68, 81.

Mr. F. P. Pascoe, plates 19, 28, 34, 35, 44, 74, 75, 77, 78, 83, 92, 93.

Mr. E. Saunders, plates 25, 33.

Sir Sidney Smith Saunders, plates 22, 40.

Colonel Shelley, plates 3, 13.

Lord Walsingham, plates 57, 64.

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## STYPHLODERMA ASPERATUM. Plate 5.

The specimen figured is a female. The male appears always to have two rusty yellow spots on each elytron. The anterior and posterior margins of the thorax are beset with minute granules, a character which distinguishes it from *S. lævicolle*, Waterhouse, which has a smooth thorax.

## TETRACHA AUSTRALIS. Plate 17.

This beautiful species was found far in the interior of Australia in considerable numbers, by Mr. F. G. Waterhouse, the Curator of the South Australian Museum. The figure is taken from an example sent by him to the Editor. It was described in Australia by M. Castelnau under the name *Tetracha Waterhousei*, but specimens having been sent to Europe, it was first described by Baron Chaudoir, under the name *T. australis*.

## CASNONIA ALIENA. Plate 92.

This species has an impressed arcuate line on each side of the thorax, a character in which it appears to differ from all the other species of the genus.

## PERCOSOMA SULCIPENNE. Plate 1.

The specimen from which this insect is figured was one of the same series as that from which Mr. Bates obtained his example.

## PSEPHENUS DARWINII. Plate 26.

The figure is taken from the specimen described by the Editor. It was taken by Dr. Darwin some fifty years ago in Rio Janeiro. He found some specimens in water under stones. The only example which has been preserved was until lately in Mr. G. R. Waterhouse's collection, but is now in the British Museum.

## RHYTINOTUS SQUAMULOSUS. Plate 42.

This singular insect is figured from an example in Mr. Pascoe's collection.

## BRACHYSIDERUS QUADRIMACULATUS. Plate 43.

This most interesting species is now in the possession of Mr. David Sharp, of Thornhill, Dumfries.

## EUPECILA EBURNEOGUTTATA. Plate 59.

Figured from an example in Mr. Janson's collection. This species has received a second name, *Lenosoma incana*, Meleay, but M. Blanchard's has the priority. This species should be placed in the genus *Lenosoma*.

## COPTOMIA OPALINA. Plate 18.

By the kindness of Professor Westwood, I am enabled to figure this species from the original type. It was described under the name *Cetonia opalina*, but in modern catalogues is placed in the genus *Coptomia*. In some continental collections this species is represented by a common species from Madagascar (*Coptomia mutabilis*, Waterhouse), from which it can at once be distinguished by the form of the sternal process (given on the right side of the plate), and by the striation of the pygidium, figured on the left side of the plate. The type specimen bears the label 'Mauritius?,' and I know of no authority for Madagascar as its true habitat, as given by Gory, although it seems more probable than Mauritius.

## GENECERUS CERVINUS. Plate 73.

Specimens of this species have lately been received at the British Museum, from Arabia.

## CLERUS LEPIDUS. Plate 76.

Besides the type specimen figured, Mr. Janson has a second, smaller example, which differs in the absence of the spots at the middle of the elytra. To facilitate the determination of the species enlarged drawings are given of the antenna, of the front tarsus (on the left of the plate), and of the posterior tarsus on the right of the plate.

## LATHETICUS ORYZÆ. Plate 15.

It is impossible at present to decide whence this species originally came, but its natural food appears to be rice, although it has been found in other grain. It has been received from India and Arabia, and on one occasion was taken in a sweeping net in a corn field in England.

## APODERUS TENUISSIMUS. Plate 28.

In the three males of this species which have come under my notice there is a slight variation in the length of the neck.

## PLECTOGASTER PECTINICORNIS. Plate 60.

I consider this to be one of the most interesting species that I have had the opportunity of figuring. I only know of two specimens of the species, both females, in Mr. H. W. Bates' collection. The male is still unknown, and will probably have the antennæ still more strongly pectinated. There is in the British Museum an example (also a female), of an allied species from East Africa.

## EPANIO PUSIO. Plate 77.

The hairs on the posterior femora are much longer than in the figure they are represented to be.

## LACHNIA SUBCINCTA. Plate 5.

The type specimen of this species is in Mr. A. Fry's collection. It is an insect which appears to have been overlooked by modern authors, as no mention is made of it in Lacordaire's 'Genera des Coléoptères,' nor in Gemminger and von Harold's 'Catalogus Coleopterorum.' It should be placed next to the genus *Tybalma*.

## CYCLOPEPLUS CYANEUS. Plate 61.

This species is figured from an example in Mr. Janson's collection. Some specimens are entirely blue.

## HALTICELLA OSMICIDA. Plate 40.

This insect is parasitic upon *Osmia tridentata*. The upper figure represents the female ; an enlarged view of the posterior leg is given on the right of the plate. The lower figure is the male.

## HOMALUS NANUS. Plate 22.

This small but most beautiful insect is parasitic upon *Nitelopsis pisonoides*. The specimen from which the figure is taken was bred from that insect by Sir Sidney Smith Saunders.

## ANTHERÆA MACROPHALMA. Plate 88.

This species is figured from the type specimen, which is in very bad condition, some parts of the wings being almost destitute of scales. I think, however, that Mr. Wilson has given a very good representation of the insect as 'restored.'

## EUDÆMONIA ARGIPHONTES. Plate 30.

Some copies of this plate were issued in which a small detached spot in the front wings was accidentally omitted. It is very small and should be between the dark basal stripe and the four discoidal spots.

## BRAHMÆA NIGRANS. Plate 29.

As there are important characters in the markings of the wings on the underside of this species, one pair of wings has been represented as detached and reversed.

## GONOPHORA INDICA. Plate 9.

This species was figured from the type specimen, which has imperfect antennæ, and is otherwise not in good condition ; but it was the only example available.

## CALLIODES LANIPES. Plate 48.

This species is figured from an example determined by Mr. Butler. The body of the specimen was much mutilated, but I think is faithfully restored.

## EUSCHEMA ANDAMANA. Plate 11.

I have seen several specimens of this species from the Andaman Islands. They differ somewhat from each other and from the type.

## STIGMONOTA ERECTANA. Plate 64.

This species is closely allied to *S. internana*. The figure is taken from the unique example in Lord Walsingham's collection. Mr. Barrett states that this specimen was "taken by the Hon. Beatrice de Grey among broom (*Spartium scoparium*) in Norfolk."

## OSMYLUS MULTIGUTTATUS. Plate 90.

The specimens of this species in Mr. McLachlan's collection vary somewhat. The spots are frequently larger than in the one figured. The wings have a beautiful green and pink iridescence which it is impossible to represent in a drawing.

## BATHYCELIA DISTINCTA. Plate 7.

The type specimen from which this species is figured, wants the two apical joints of the antennæ; these are, therefore, only indicated by dotted lines.

## APHANA NOVENMACULATA. Plate 50.

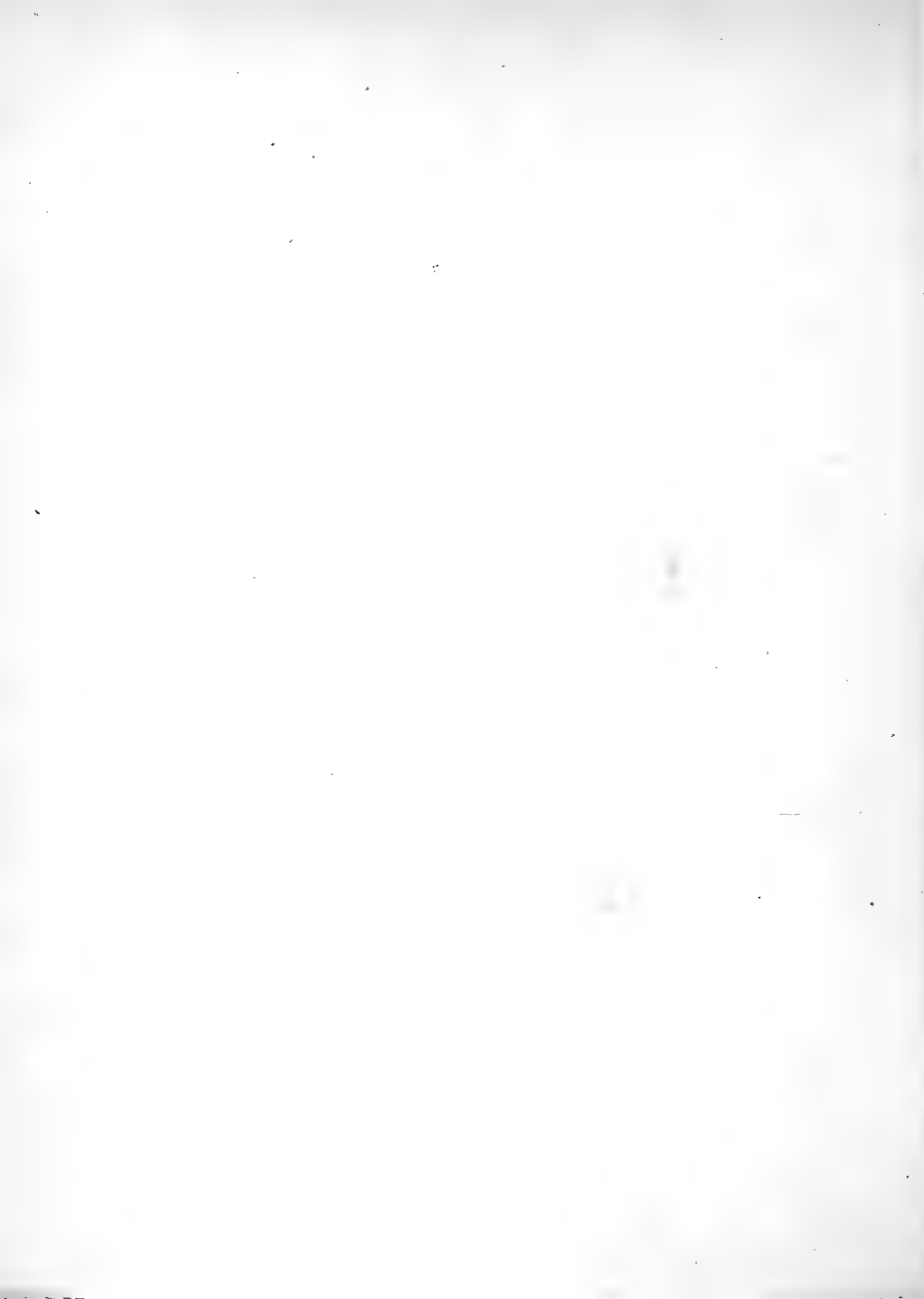
By an unfortunate oversight some copies of this plate were issued in which the *ninth* spot on the thorax was omitted. This should be at the extreme posterior point.

LONDON, *Feb. 24th, 1882.*

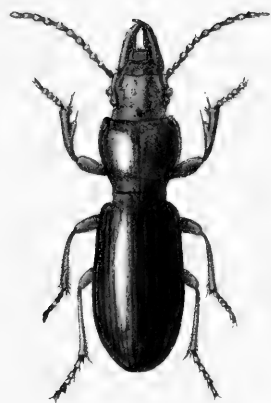
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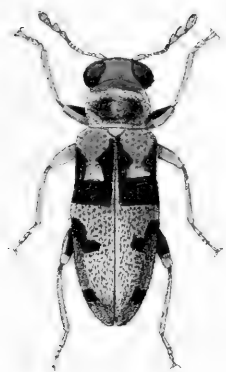






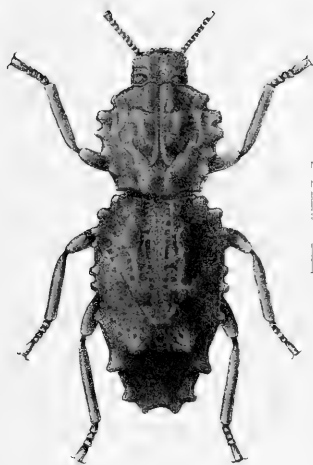
Percosoma scutigerne  
*Eul. Asi. Di. 1. 10. p. 50.*  
 Fabricius





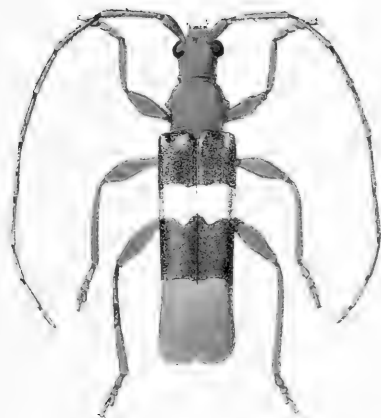
*Carabus venustus*  
*Journal of the Ent. Soc. 1872, p. 47*  
 America



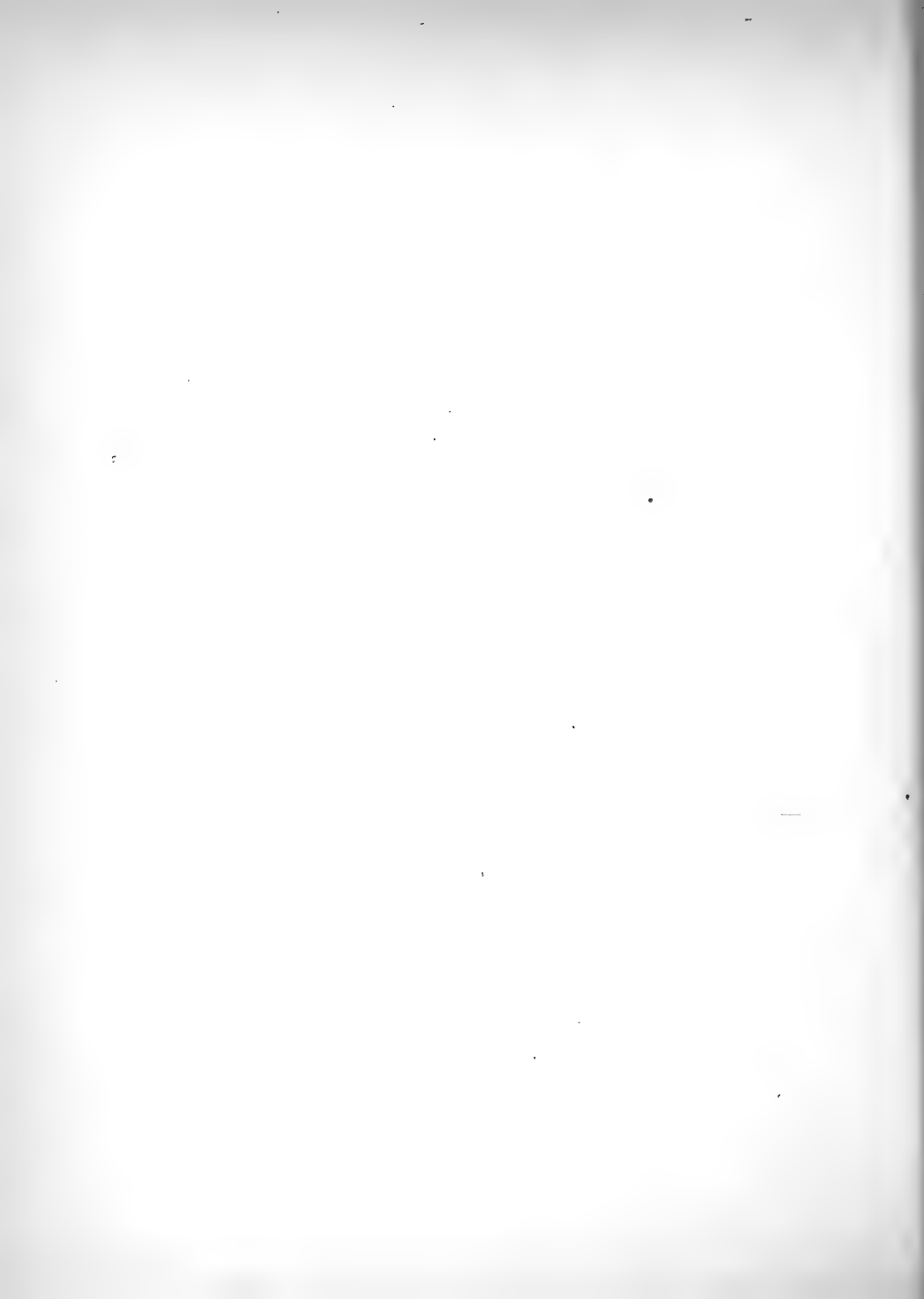


*Nisoderma roborator*  
*Werner, Jour. Acad. Nat. Hist. Phila.* 1855, Pl. 14  
 East Africa

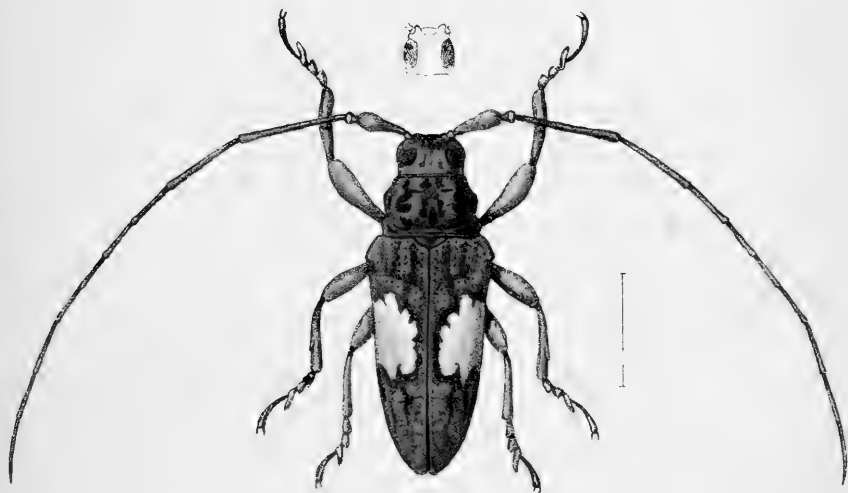




*Cerambyx*  
*longicornis* (L.)

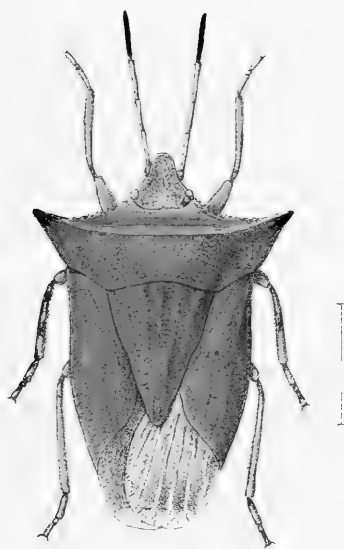






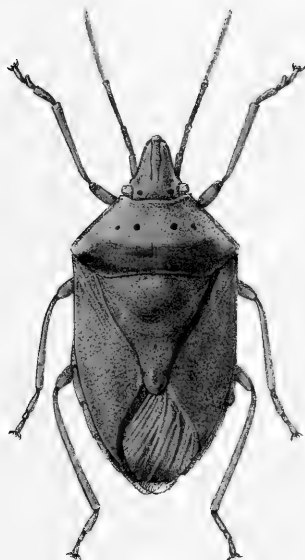
*Leclina subcincta*,  
*Serville, Ann. Soc. Ent. Fr. 1837, p. 54.*  
Cayenne.





*Macrina dilatata*,  
*Distant, Ann & Mag. Nat. Hist.*, III, (1879), p. 52  
N. India



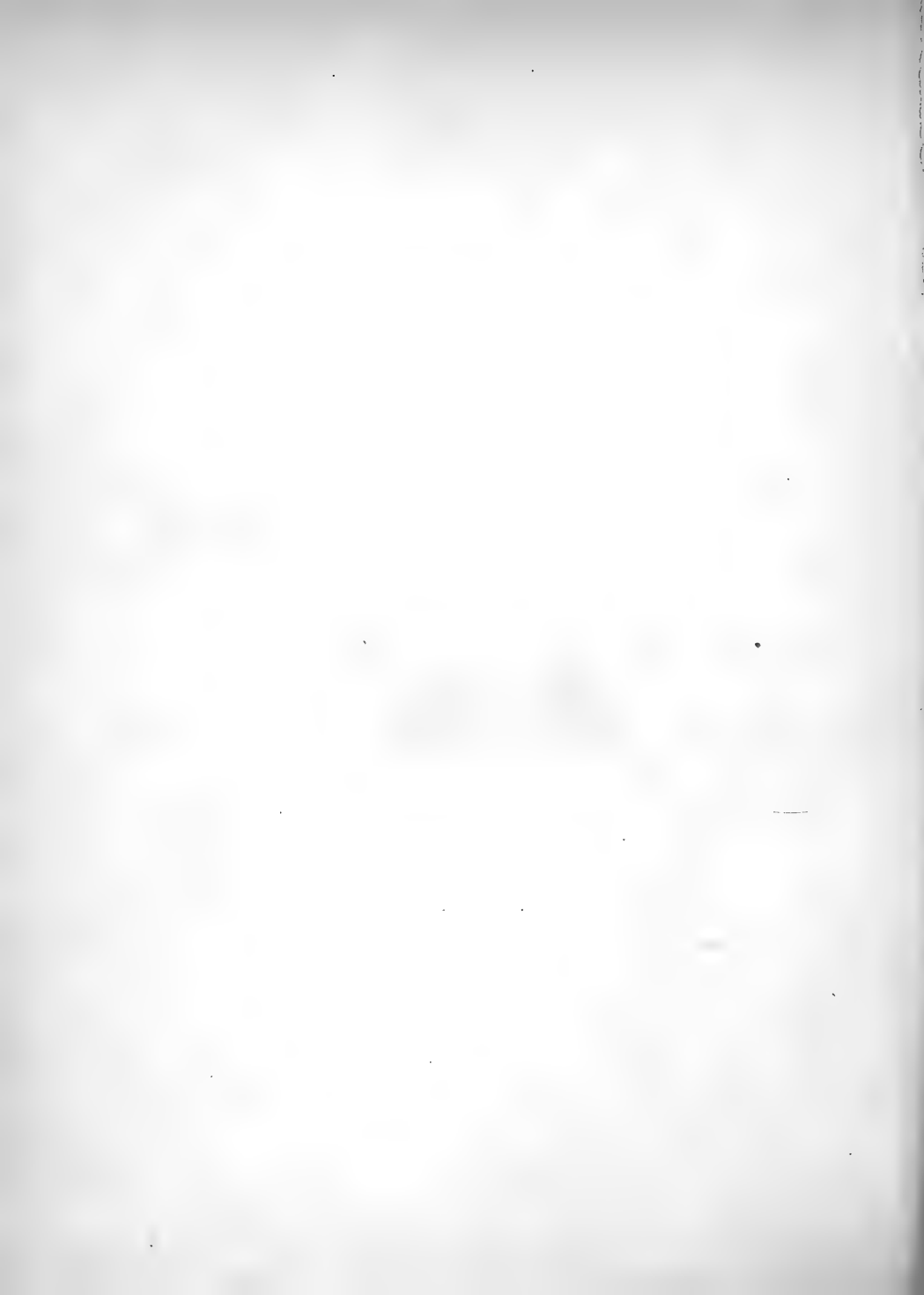


Bathycoelia distincta,  
*Distant, Ent Mo Mag., XIV, (1878) p. 247,*  
W. Africa

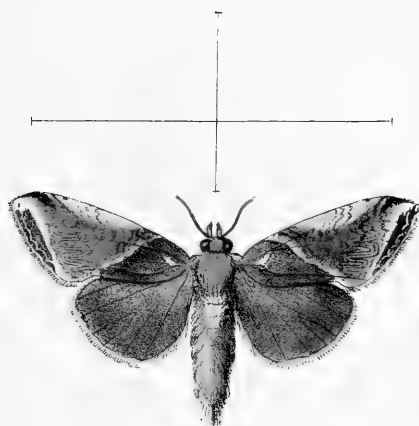




*Col. Pieris lucasae*  
*M. in the P. of the P. of the P.*  
*1871*

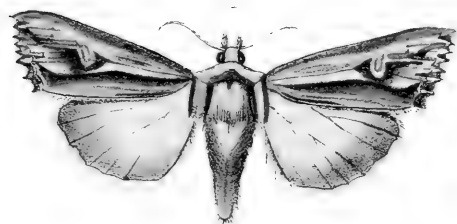






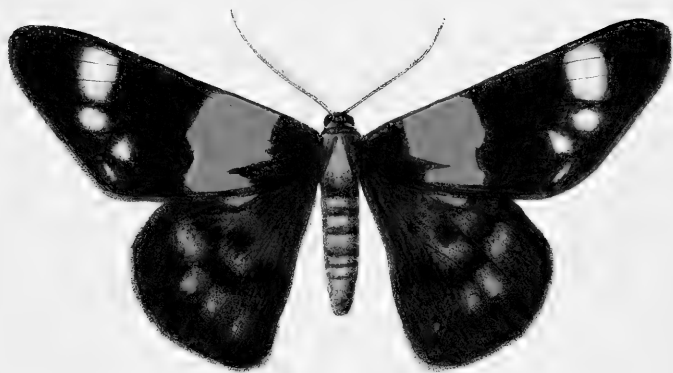
*Gonophora indica.*  
*Moore. Proc. Zool. Soc. 1867, p. 44.*  
Darjeeling.





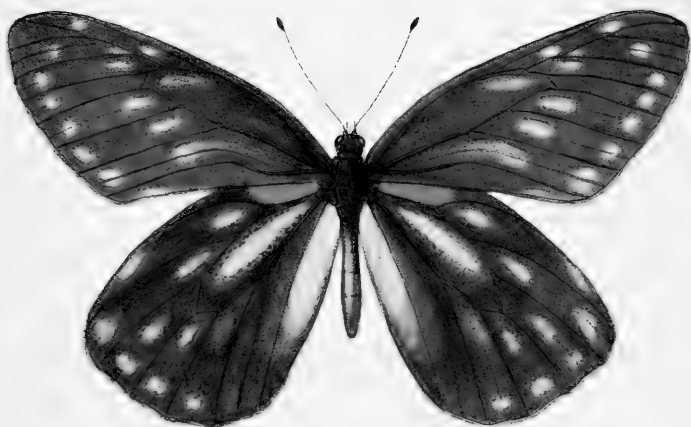
*Arctium ciliatense*  
*Mat. Ent. Soc. B. C.* 1897, p. 42.  
 (L. G. G. G.)



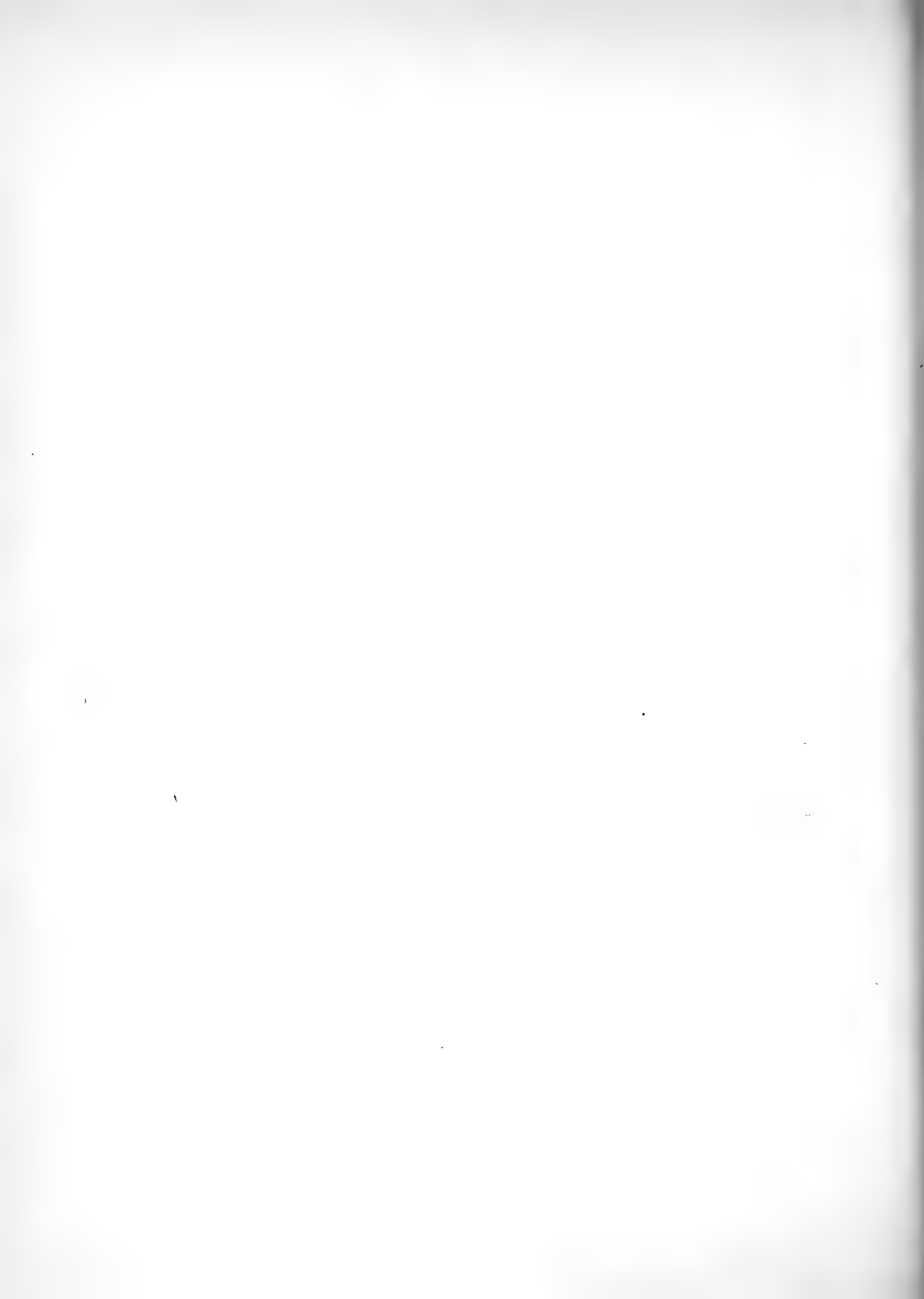


*Euscheria andamana*,  
*Moore, Proc Zool Soc (1877), p. 529*  
Andaman Is

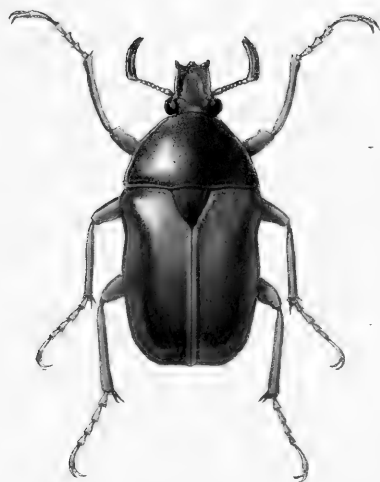




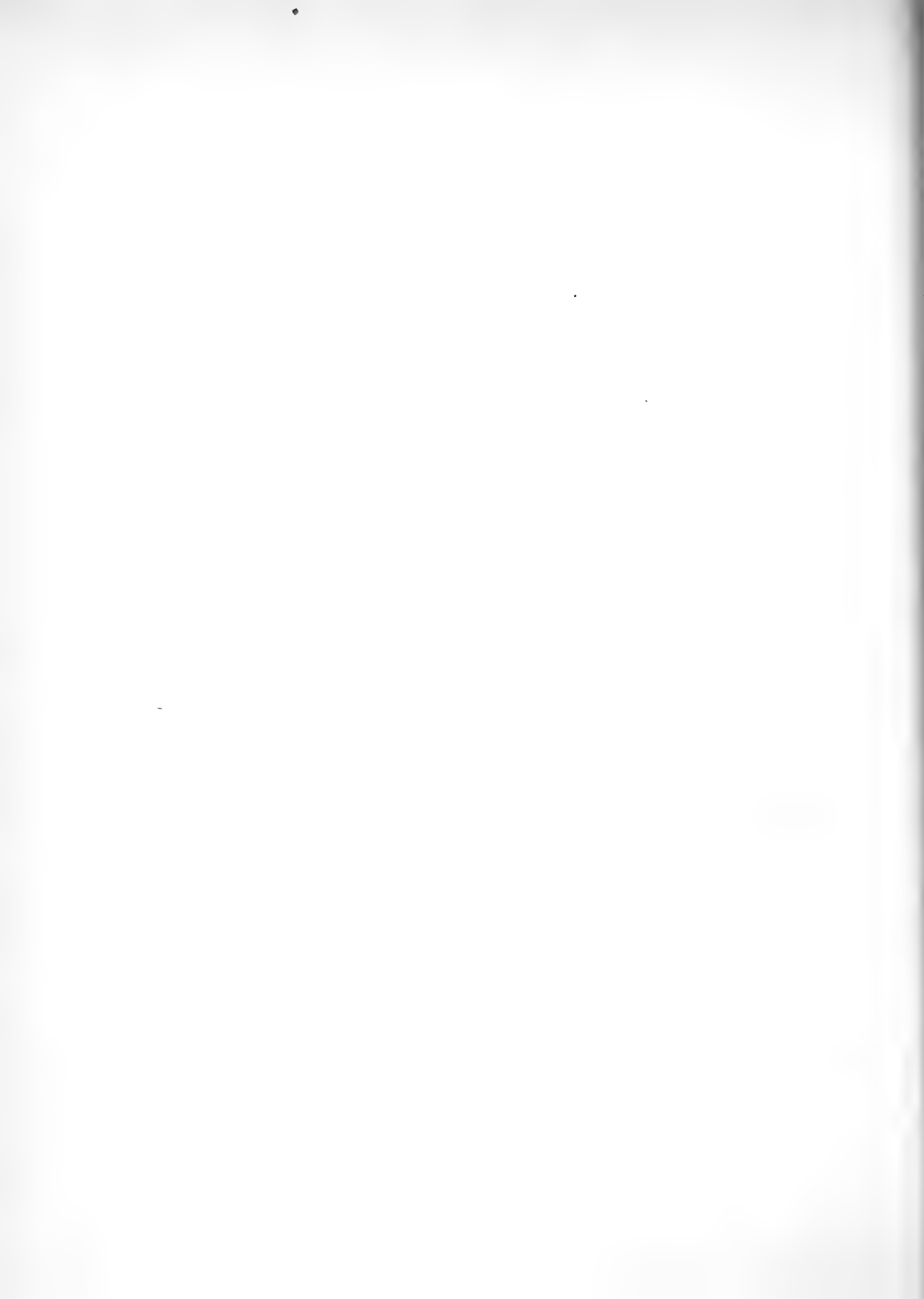
*Typha bernardus*, ♀.  
*Moore Proc. Ent. Soc. (1872), p. 566*  
Phasia Hills

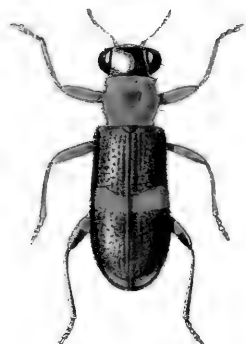






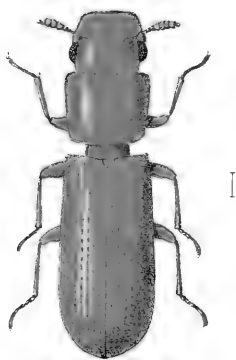
*Stag Beetle*  
*Cerambyx*  
*Stag Beetle*  
*Cerambyx*





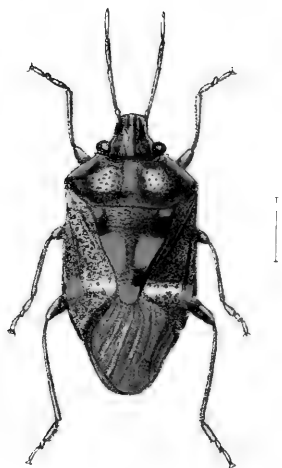
*Leptocoma lineolata*  
*Leptocoma lineolata* (C. J. 1871) 1871  
 NEW AUSTRALIA



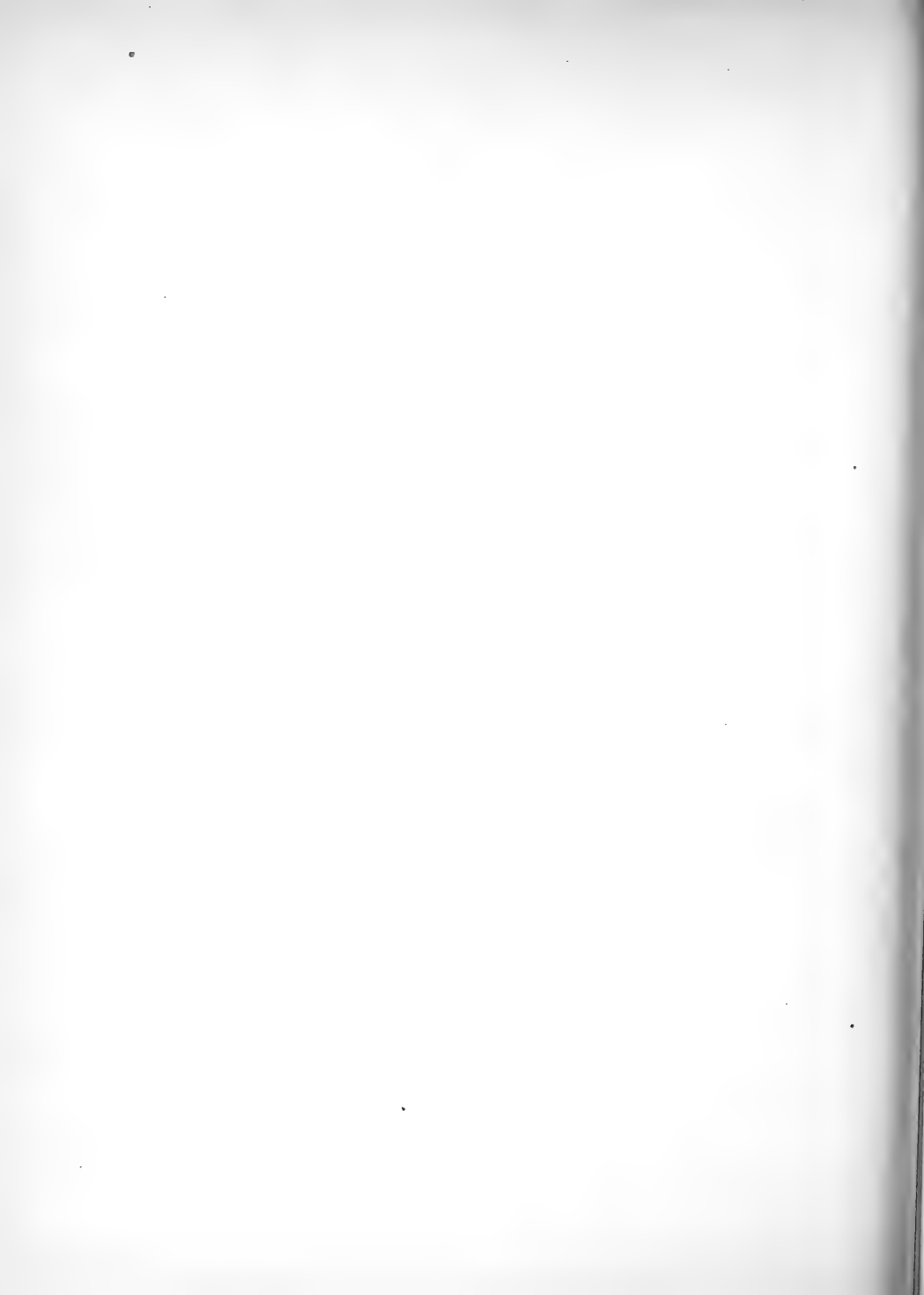


Latheticus oryzae,  
*Waterhouse, Ann. & Mag. N. Hist., V (1880), p. 148.*  
India, England, &c.

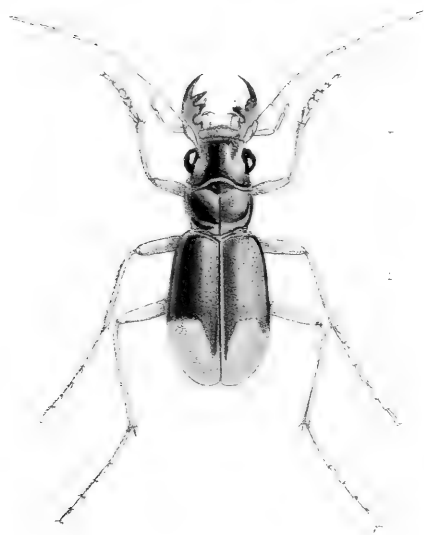




*Aplerctus maculatus*.  
*Dallas, Cat. Hem. Brit. Mus., I. (1851), p. 256.*  
 Australia.

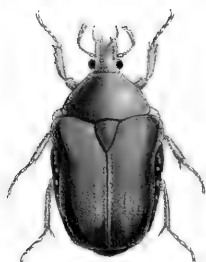






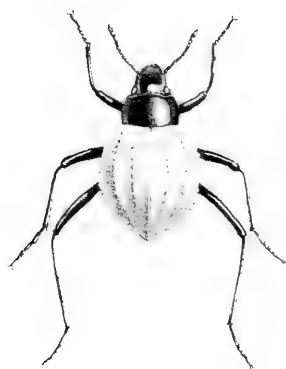
*Tetracha australis*  
*Chaudoir, Cat. Coll. Cicind., (1865) p. 63.*  
Interior of Australia.





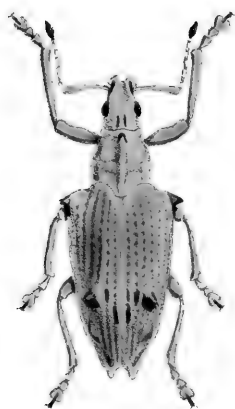
*Leptocoma opacata*  
*Conrad Deshayes, Monograph, 1858, p. 155*  
 Mauritius





*Adesmia eburnea*  
*Pascoe, Journ. of Ent., II, (1866), p 449*  
Lake N' Gamu

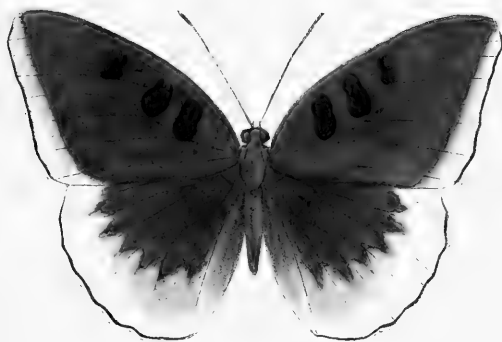




Platyomus cultricolis.  
*German, Ins. Sp. Nov., (1824), p. 432*  
Brazil.

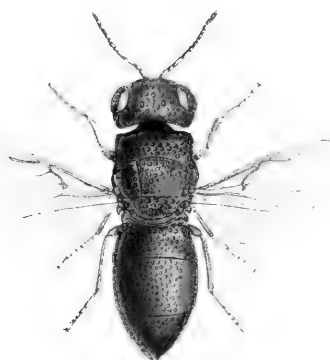






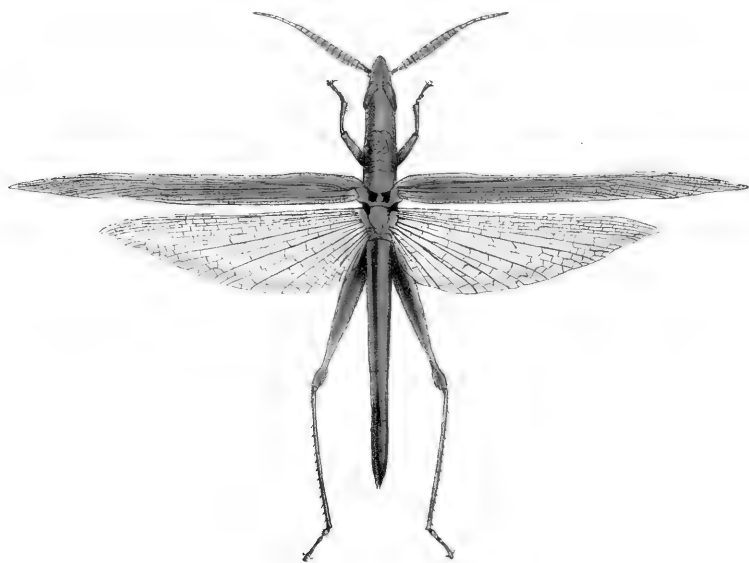
*Tanaëcia flora*,  
*M.R. Butler, Proc. Zool Soc., (1873), p. 235*  
 Penang.



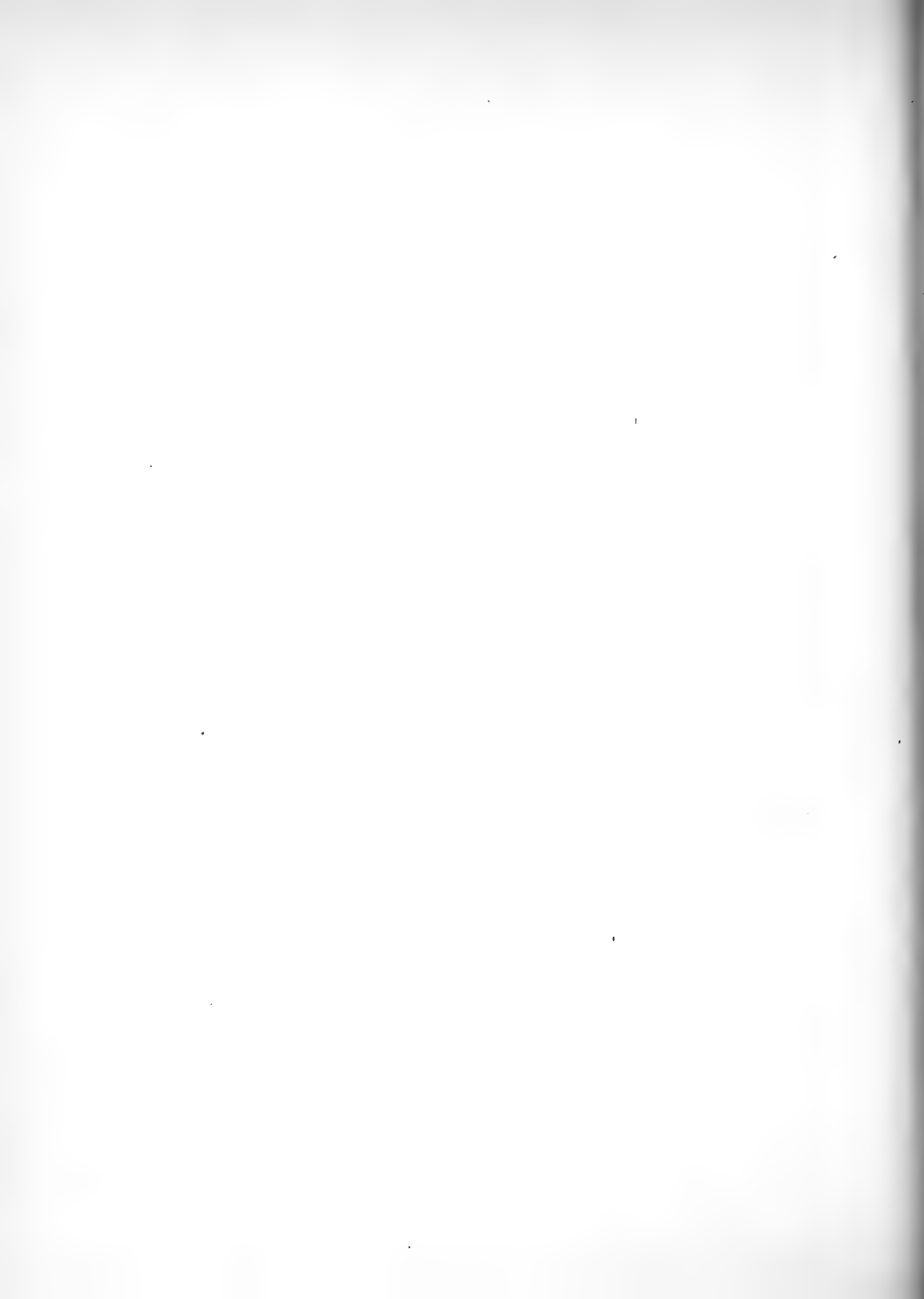


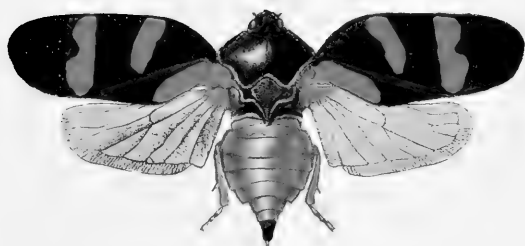
*Leptocryptus* *Leptocryptus* *Leptocryptus*  
*Leptocryptus* *Leptocryptus* *Leptocryptus*  
*Leptocryptus* *Leptocryptus* *Leptocryptus*



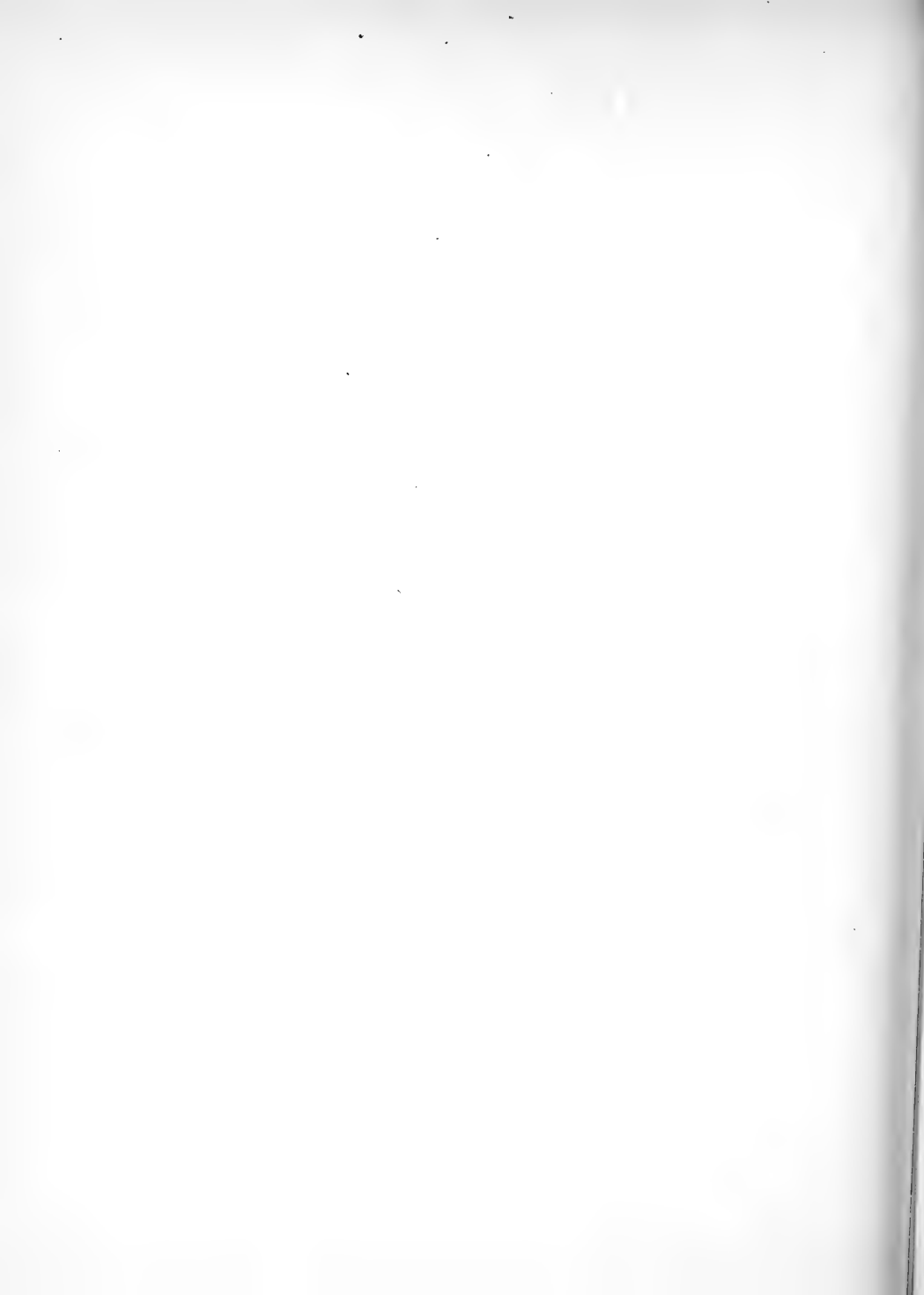


*Opsonala filiformis*,  
*Serville Hist Nat Orthop*, (1839) p. 593.  
Brazil



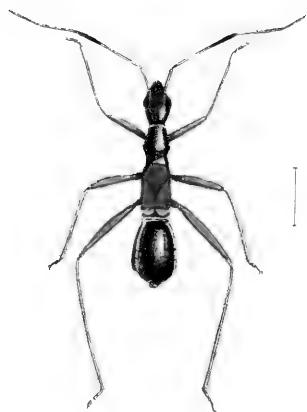


*Toniaaspis ryassæ.*  
*Entomol. Trans Ent Soc, 15(5)1, 1/77*  
 Lake Nyassa



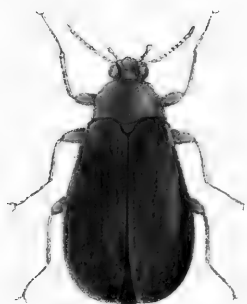


Ant



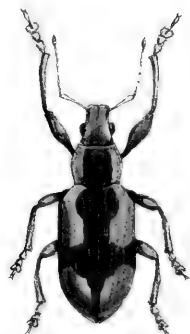
*Myrmecoris Saundersi*  
*Futon, Pet. Nov. Ent.*, (1874), p. 452.  
Greece





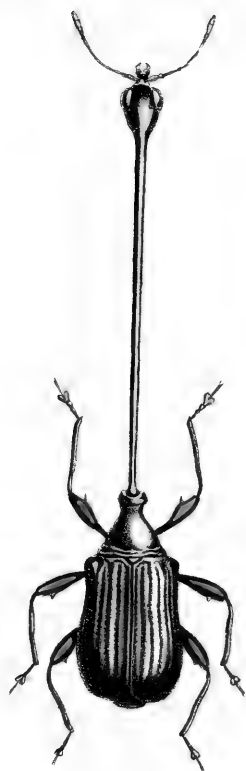
*Chrysomelidae*  
*Chrysomelidae*  
*Chrysomelidae*





*Naupactus stauropterus*  
*Germar, Ins. Sp. Nov., (1824), p. 419.*  
Brazil.





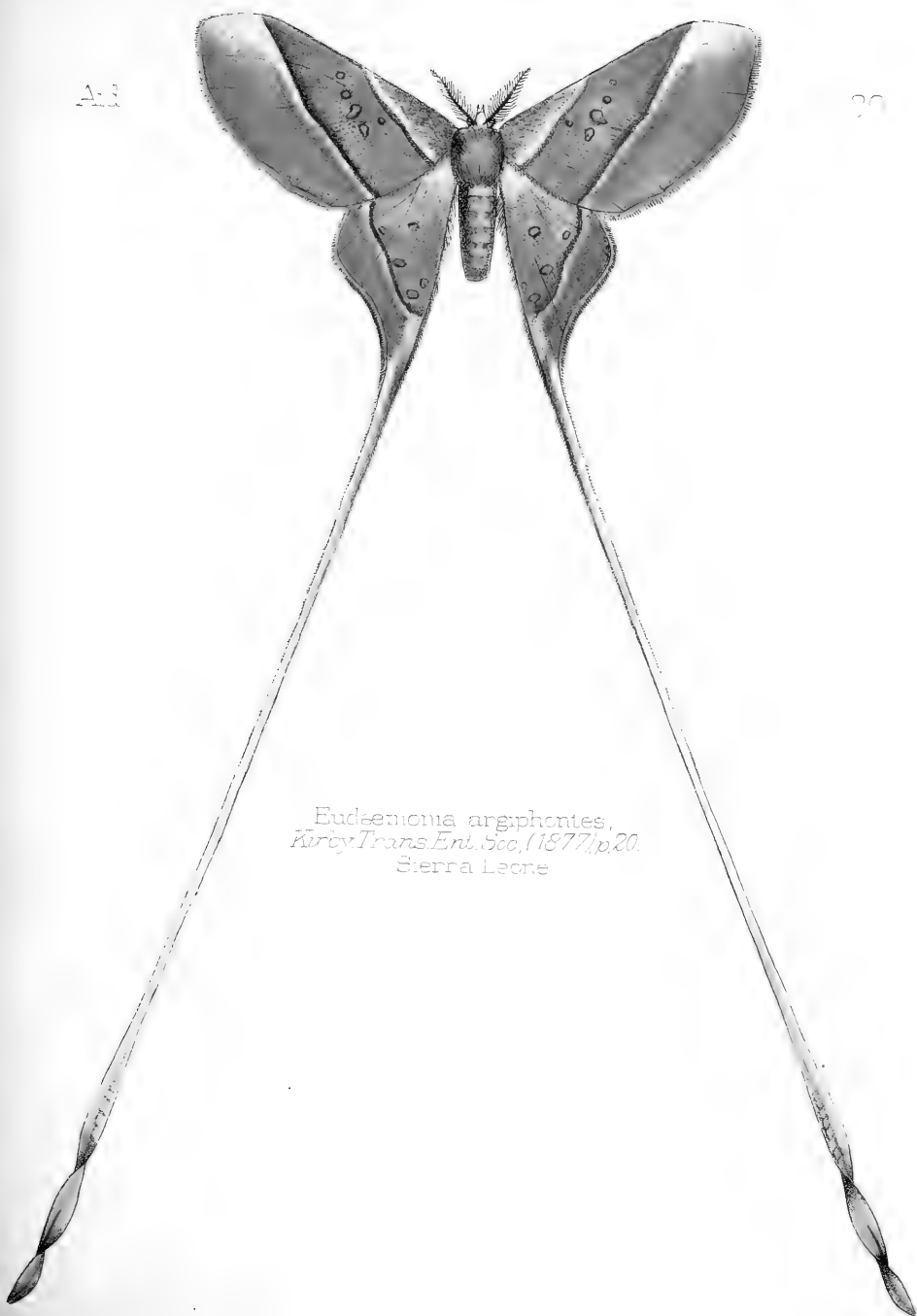
*Agathidium longicollis*,  
*Proc. Ent. Soc. Lond.* 1891, p. 59.  
*Philippine Islands*



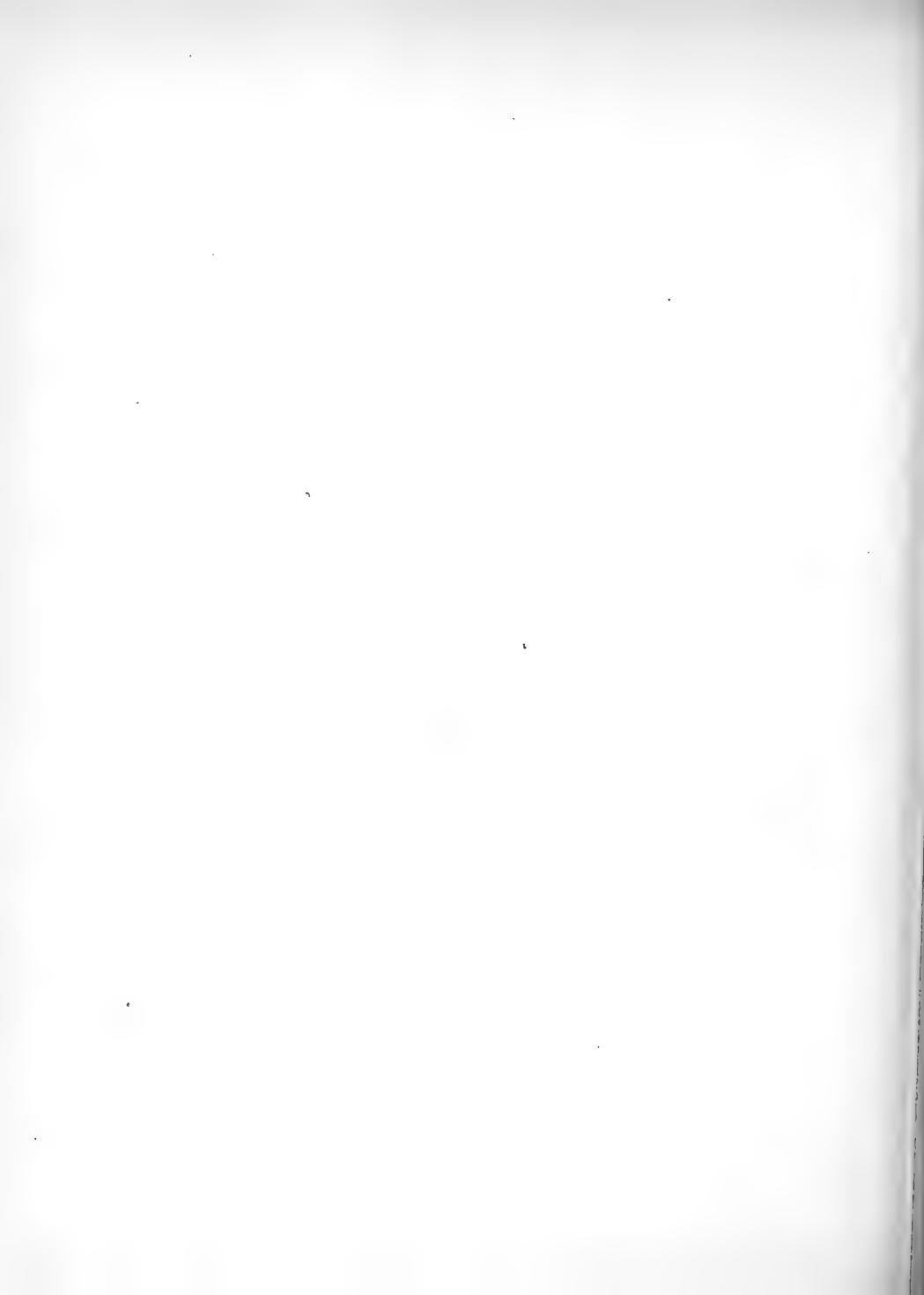


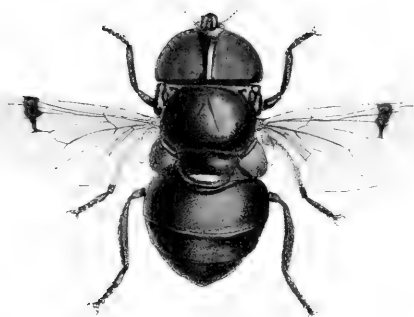






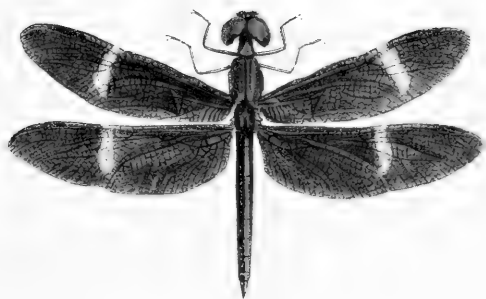
*Eudemonia argiphantes*,  
*Kirby Trans. Ent. Soc.*, (1877), p. 20.  
 Sierra Leone





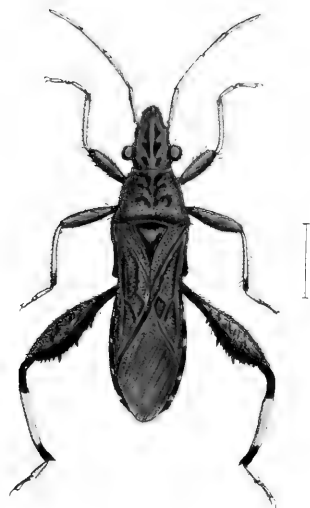
*Calliphora vicina* L.





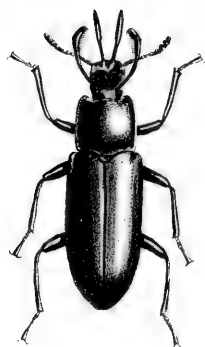






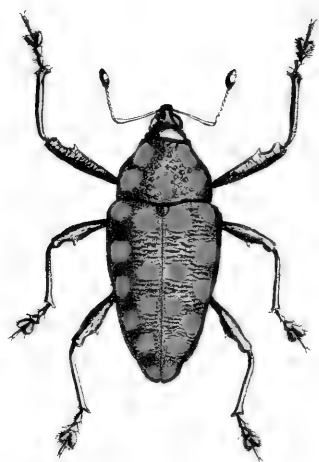
*Aylis tangieris*  
*Snodgrass, Ent. Mo. Mag. XIV, (1877), p. 1, 4*  
 Tangiers





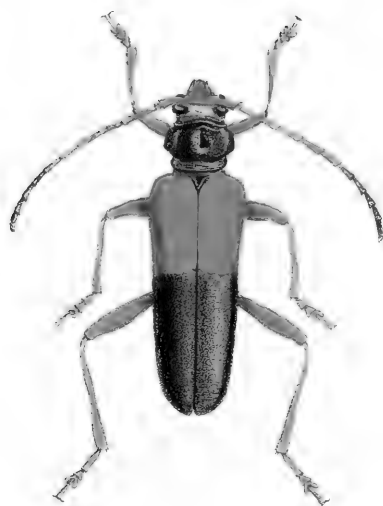
*Longhorn beetle*  
*Cerambyx (Cerambyx) fuscicornis*, II - Fig. 15  
 Series.





*Chorus hirsutus* (Linn.)  
*Passer, Ceylon Linn. Soc., Vol. 1, 1811.*  
 Bogota





*Cerambyx fuscicornis*  
 ...  
 ...  
 ...







*Euteneus Marshall*  
*Iris. Soc. Proc. Roy. Dublin, Soc. II (1880) p. 339*  
 Trinidad





*Cheimomima johanna*  
*River Thoms. Ent. Soc., '77, p. 241*  
Queensland





*Egocera tripartita*,  
*Irish Sci. Proc. Roy. Dublin Soc.* II (1880), p. 339.  
 India.





*Haliplus sinuatus*  
*Eschschert, Trans. Ent. Soc. 1878, p. 414*  
 S. Europe

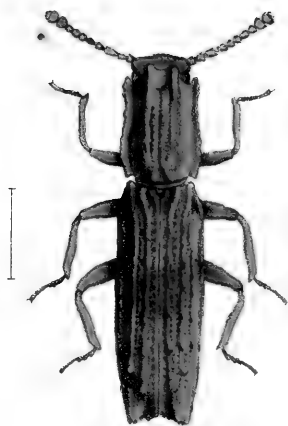




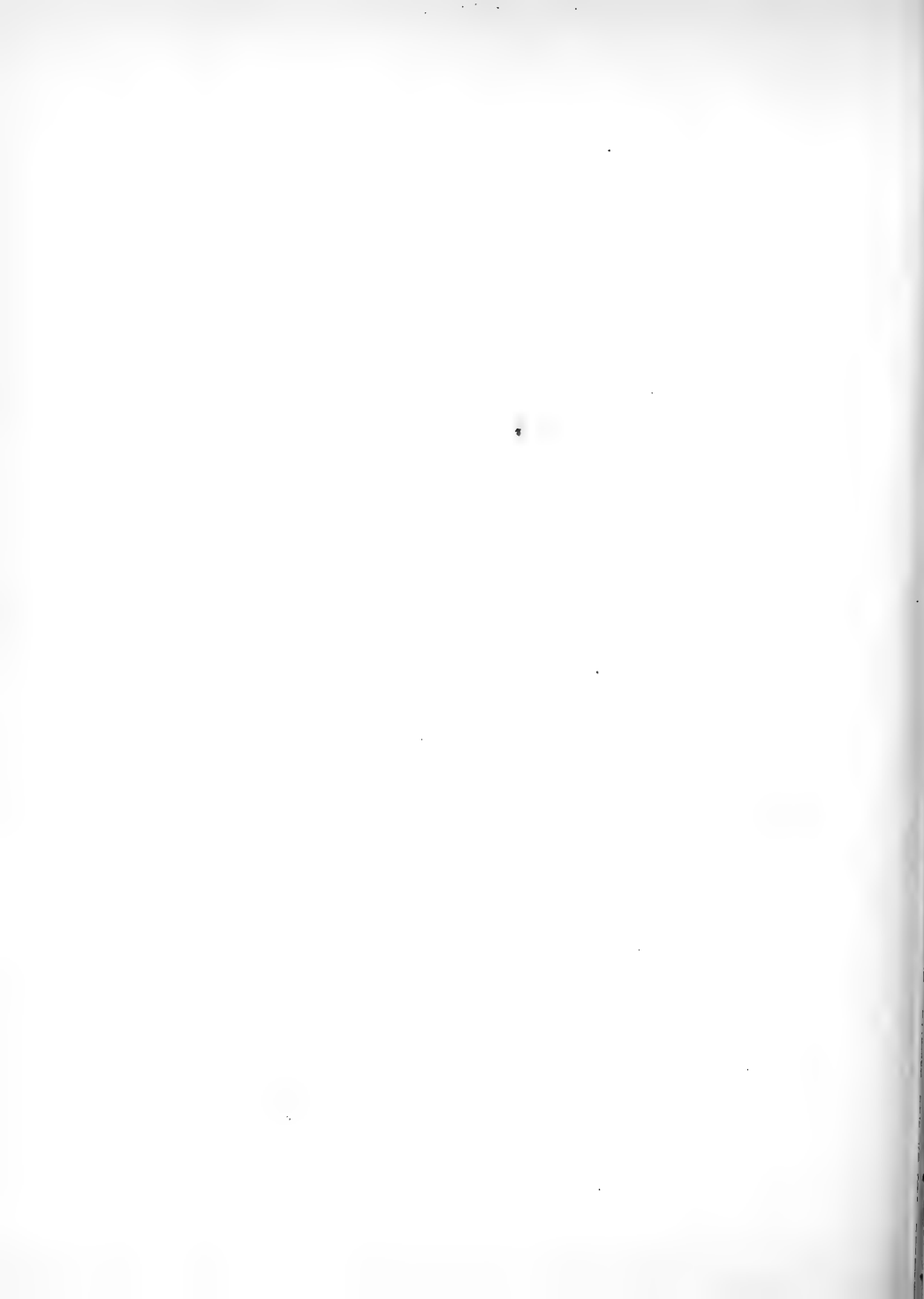


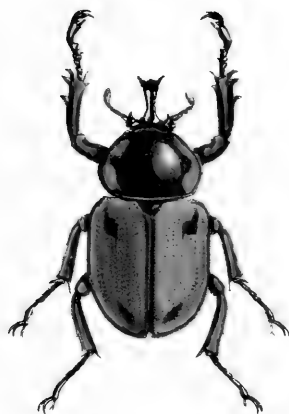
*Polydictya maculata*,  
*Lecton. Trans. Ent. Soc.* 1875, p. 303.  
 West Africa





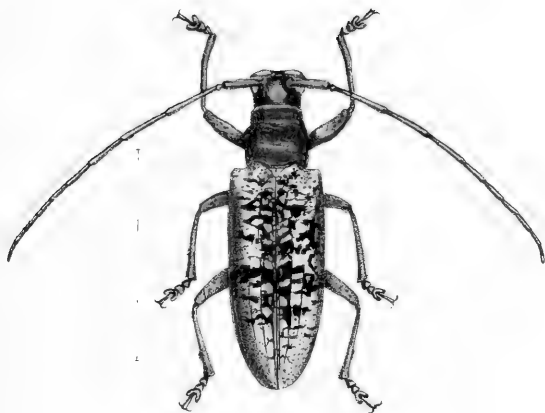
*Rhytynotus squamulosus*  
*Brown, Man. N. Zeal. Coleopt., (1880), p. 204.*  
New Zealand



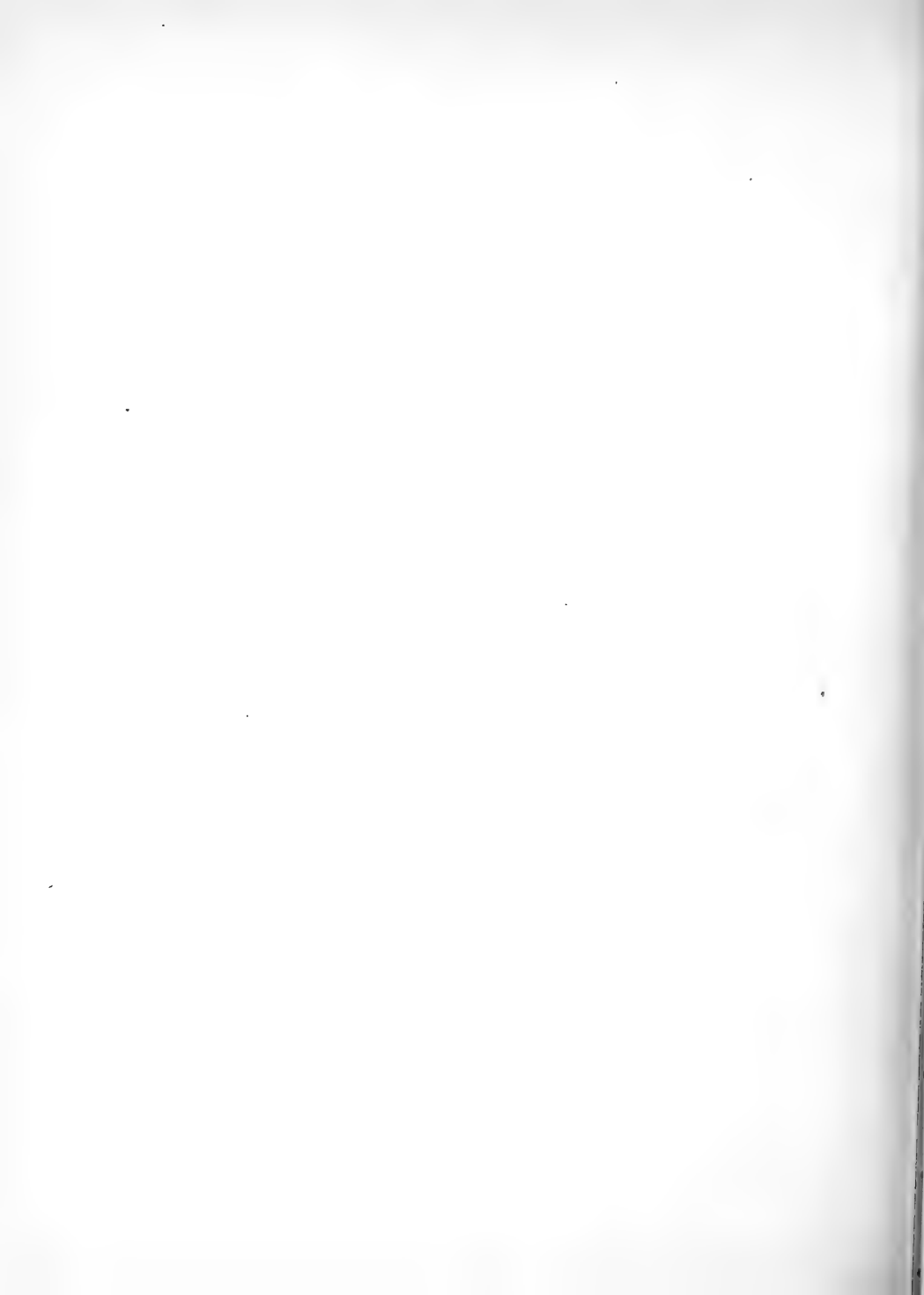


*Brachysiderus quadrimaculatus.*  
*Westw. Proc. Am. & Mag. N. Hist. N. L., 1860, p. 416.*  
AMERICAN.

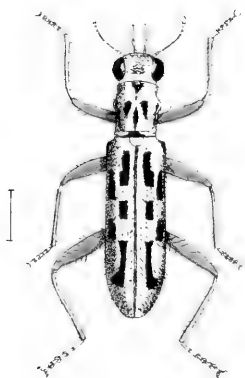




*Peribasis princeps*,  
*Pascoe, Ann & Mag N Hist, II (1876), p. 373*  
Labuan

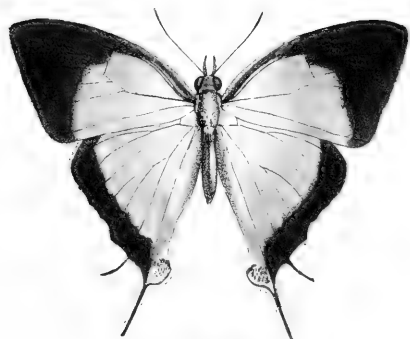






*Callimerus pulchellus*  
*Gorham, Cast. Ent., II (1876), p. 67.*  
Philippine Islands





*Purisa gigantea*,  
*Distant Ent. Mo Mag.* XVII, (1881), p. 245  
Penang





*Phaenocarpa hesperidius*  
*Berg. & Sch. in Berg. & Sch. in L. 162 p. 319.*  
 LAMPROS

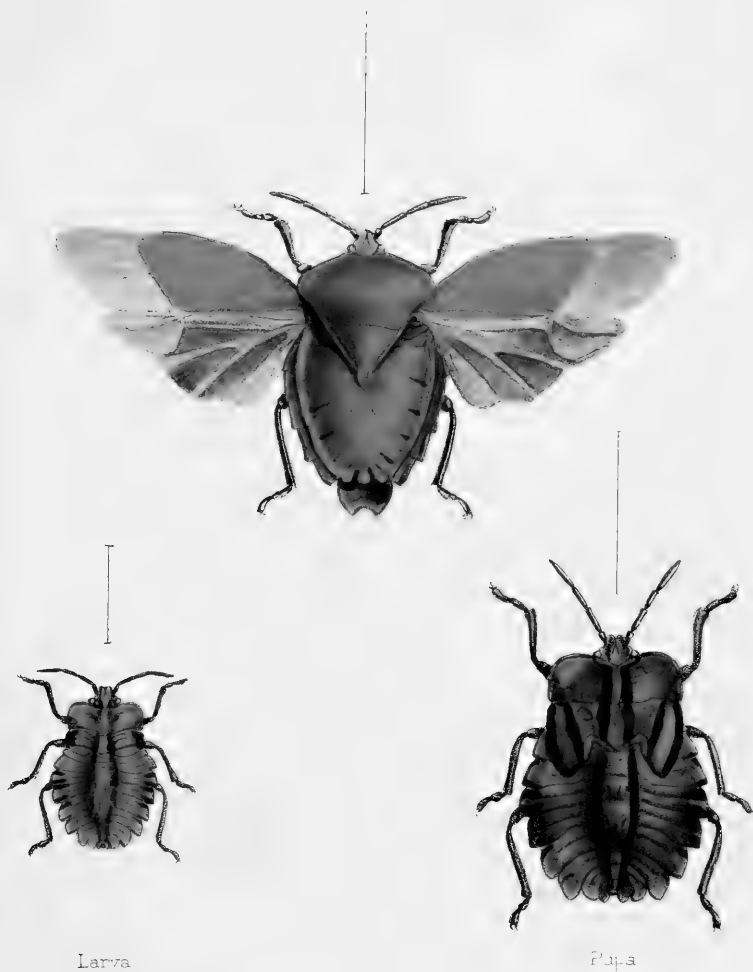




Caliodes rhipes.  
Butler, *Ent. Mo Mag.*, XIV, (1877), p 109.  
Queensland





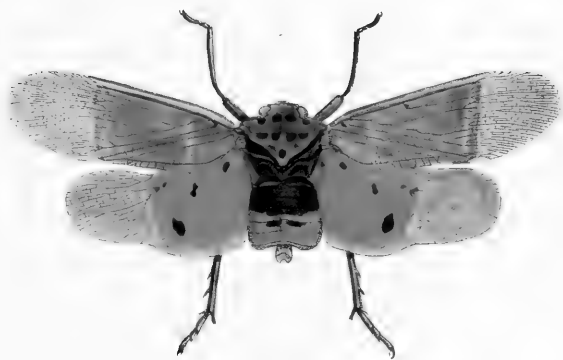


Larva

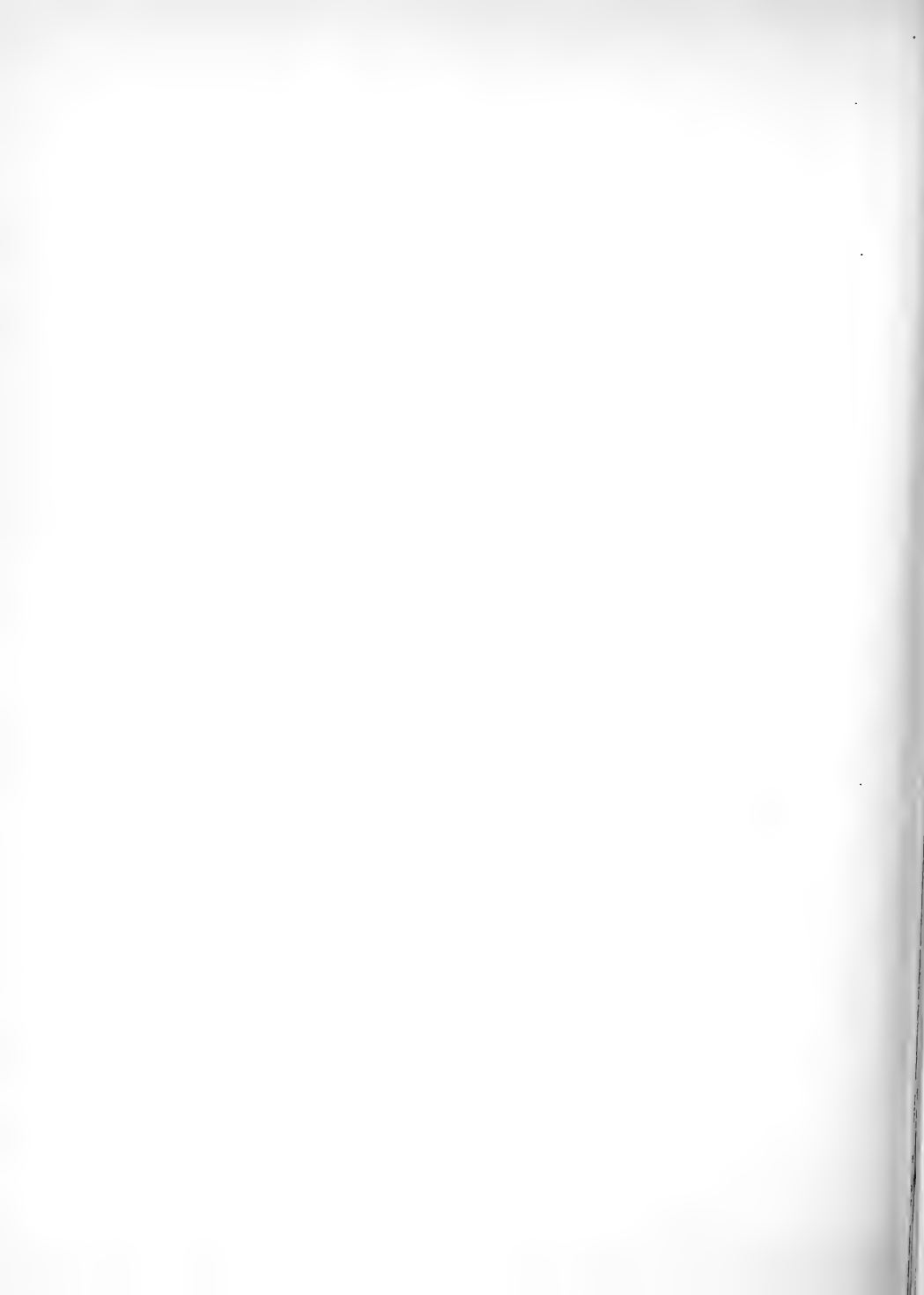
Pupa

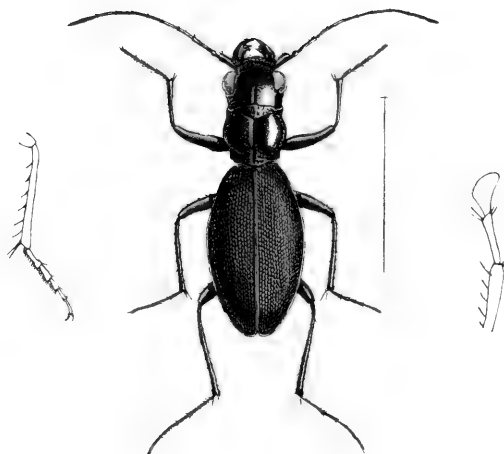
Tesseratoma æthiops,  
*Distant Ent. Mo. Mag.*, XIV, (1877), p 62  
W. Africa.





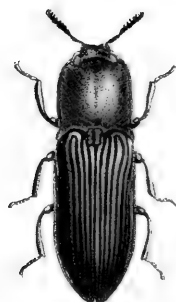
*Aphaea novemmaculata*  
*Distant, Trans. Ent. Soc., (1878), p. 323*  
W. Africa





*Styphloderma asperatum*,  
*Waterhouse, Ann. & Mag. N. Hist.* XX (1877), p. 424  
Lake Nyassa.

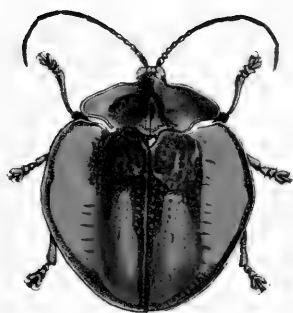




*Alada* n. sp. n. amic.  
*Alada* n. sp. n. amic.  
*Alada* n. sp. n. amic.







*Leiodontia foveola*  
*Palmer, Proc. Ent. Soc. Phila.* 1859, p. 166.  
 Peru





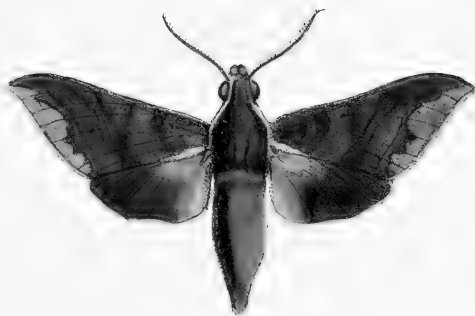
*Doryphora peresa.*  
*Lucasby Proc. Zool. Soc., (1878), p. 296*  
Colombia





*Opsiphanes bogotanus*.  
*Distant, Ent. Mo. Mag., XI. (1875) p. 203.*  
Bogota





Pergesa castanea.  
*Moore, Proc. Zool. Soc., (1872), p. 56.*  
Bombay







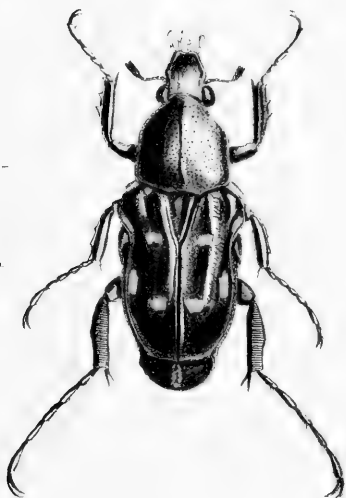
*Antispila Rivillei*,  
*Stainton, Trans. Ent. Soc., III. (1855) p. 89.*  
S. Europe.



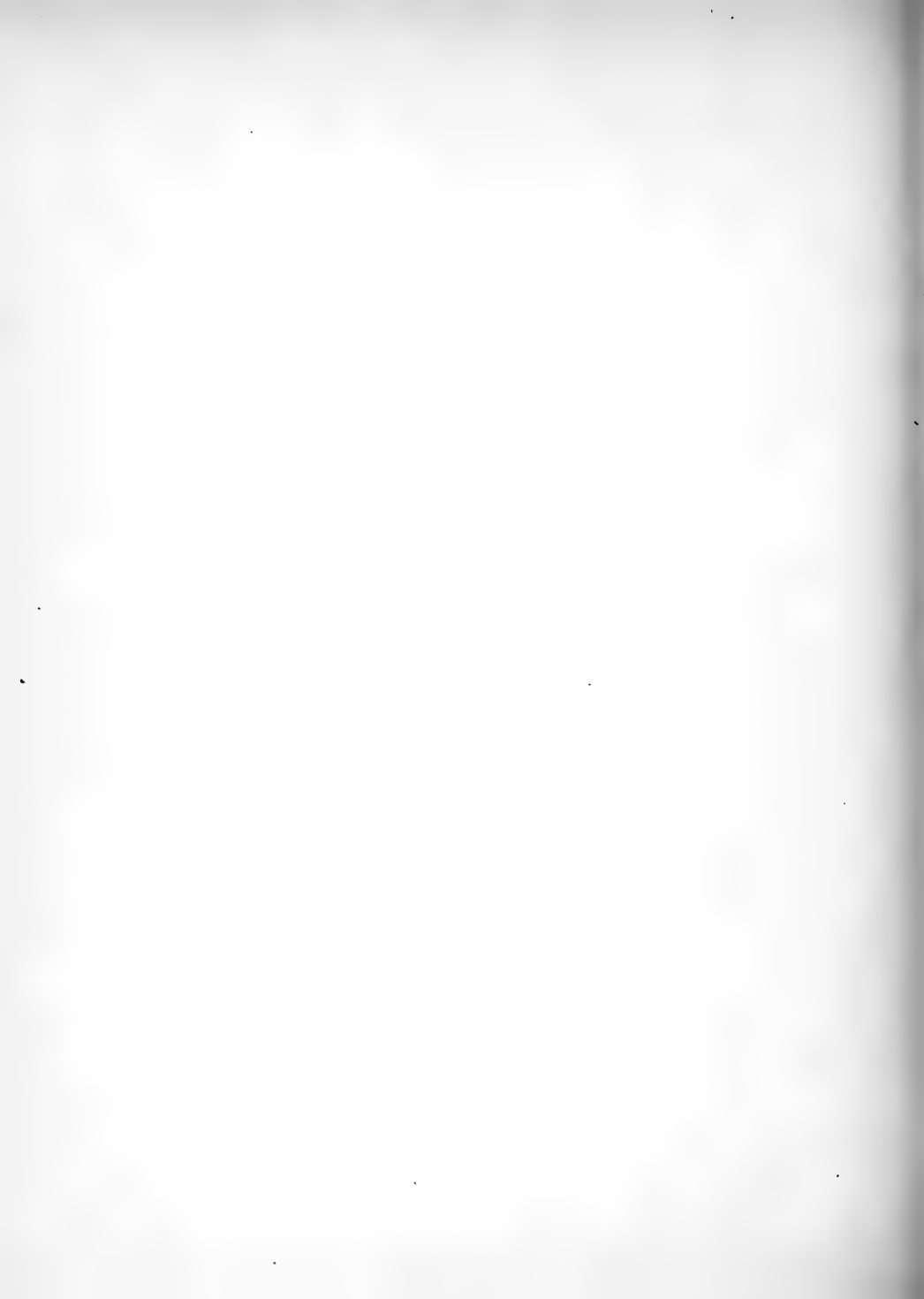


*Cosmoscarta andamanana*,  
*Distant, Trans Ent. Soc.*, (1879) p. 175.  
Andaman Is.





*Eupœcila eburneoguttata*,  
*Blanchard, Cat. Mus. Paris, (1850) p. 23*  
Queensland

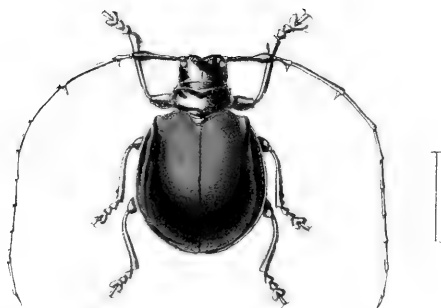




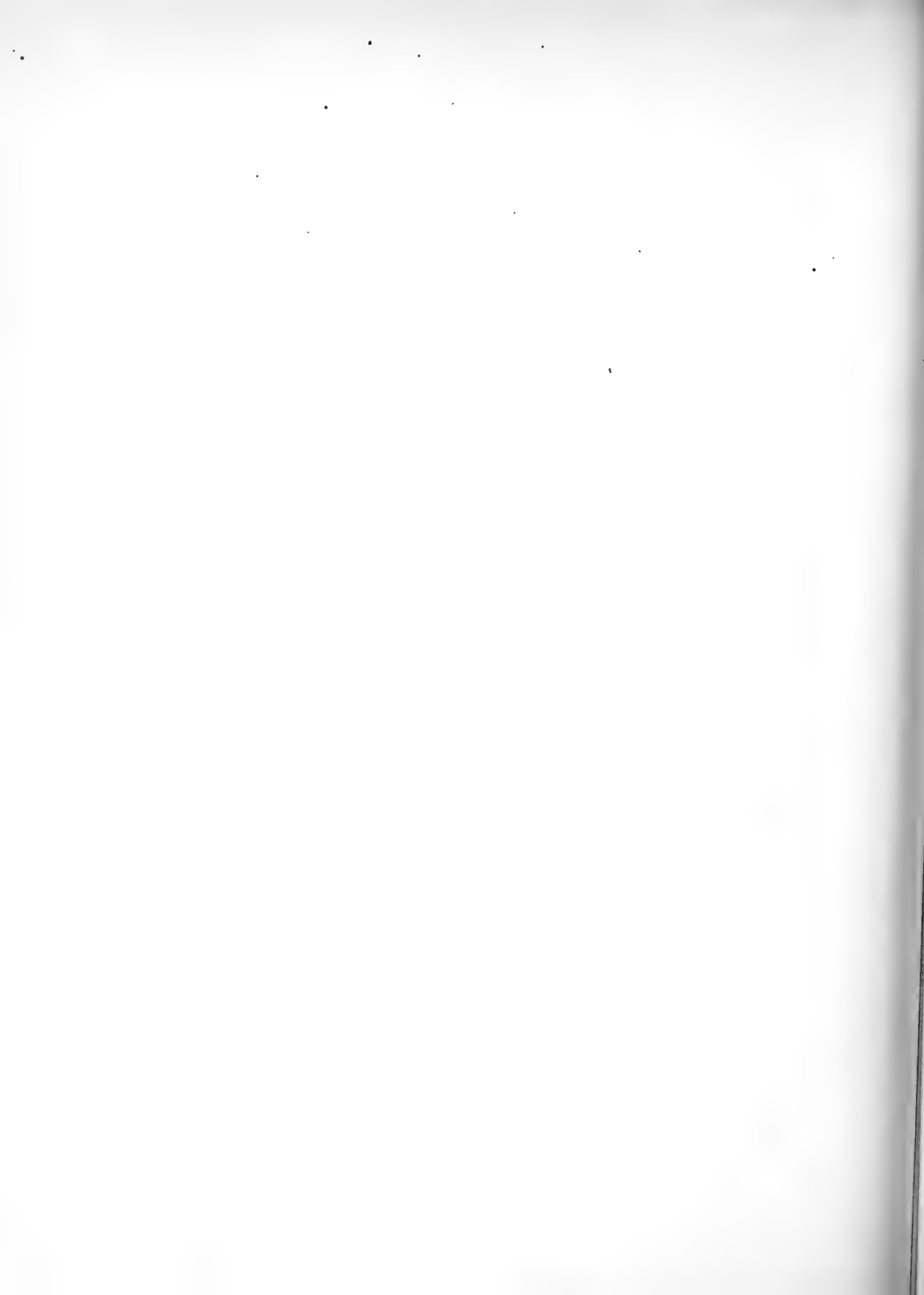
*Cerambyx foveolatus* (L.)  
*Cerambyx foveolatus* (L.)  
 (Cerambycidae)

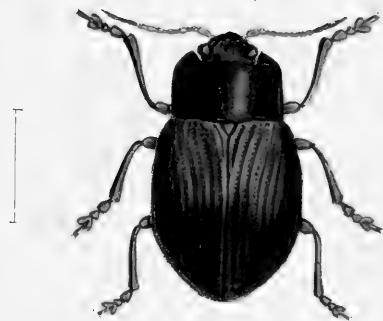




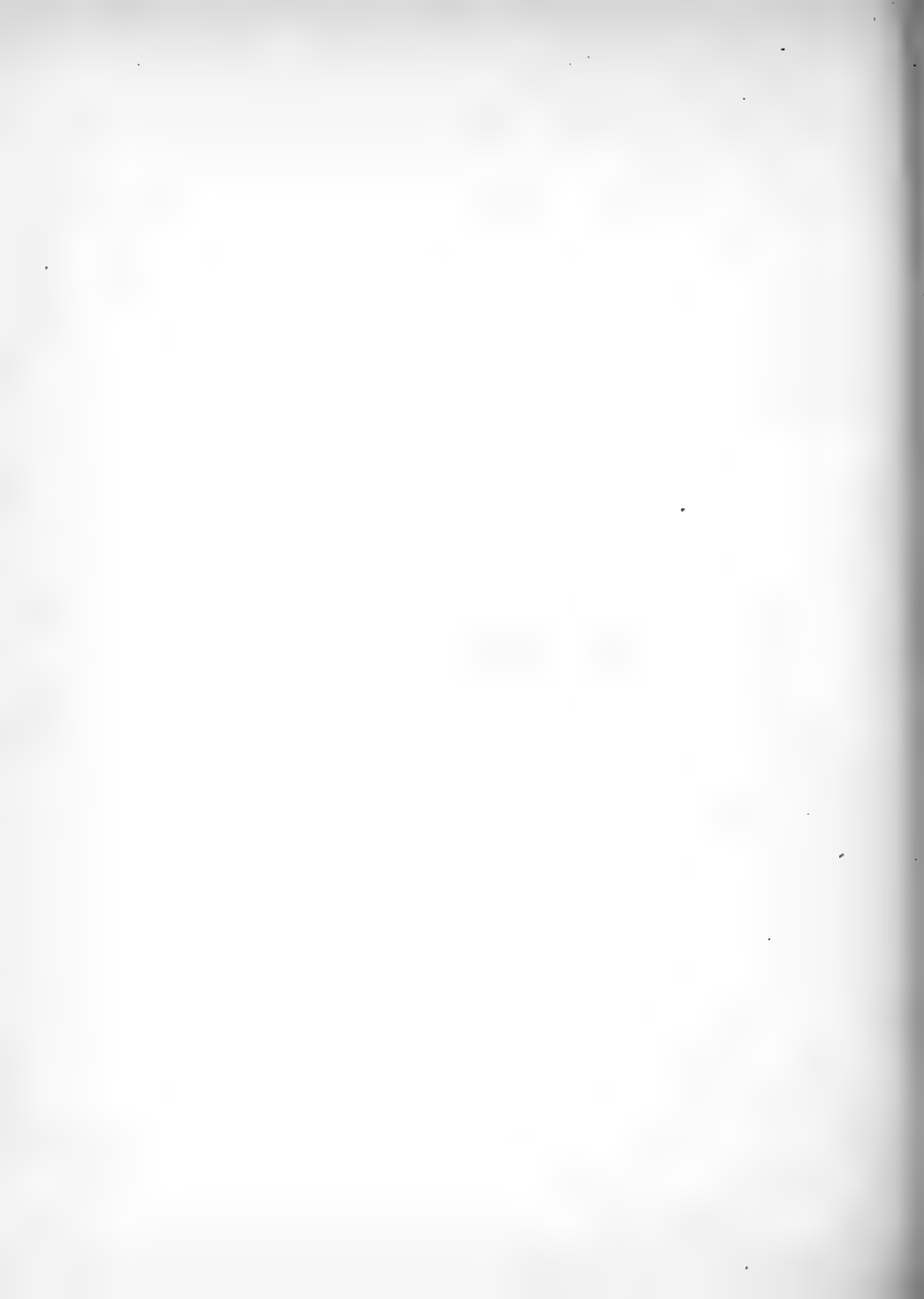


*Cyclopeplus cyaneus*,  
*Thomson, Classif. Longic., (1860), p. 32*  
Amazons.





*Doryphora coccinea*,  
*Jucocypris Zool. Soc. (1876) n. 316,*  
Colombia.





Histiocla Meldalce,  
*Butler Journ. Linn. Soc.* *XIII* (1876) p. 203.  
 Trinidad.





*Stigmonota erectana*,  
*Barrett, Ent. Mo. Mag., XII. (1875) p. 8*  
England

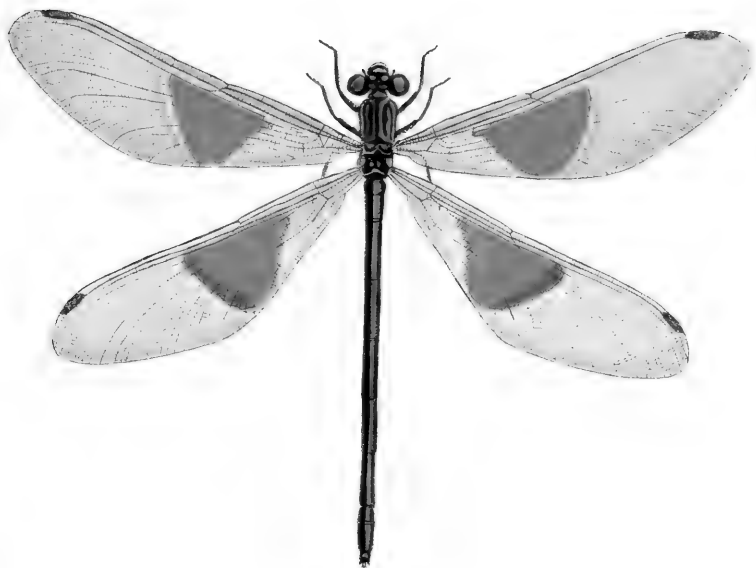






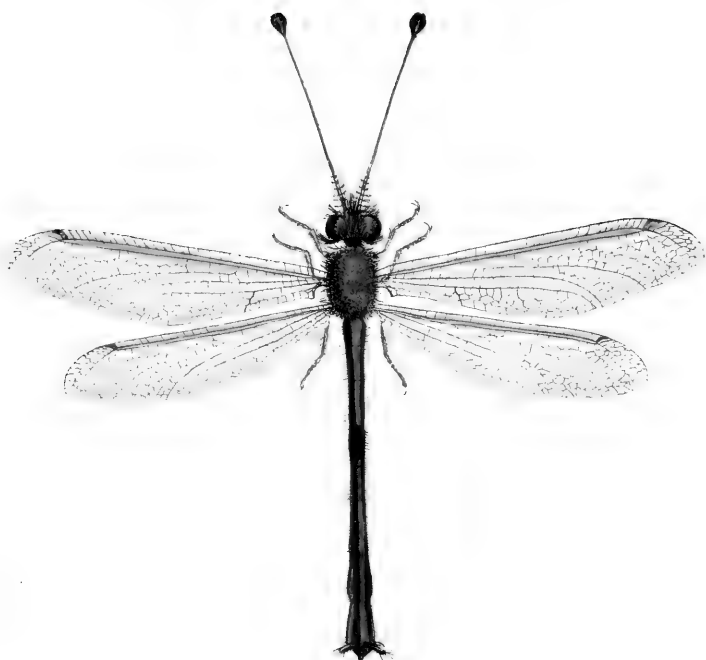
Euthore mirabilis, ♂.  
*McLachlan, Trans. Ent. Soc., (1878) p. 87.*  
Ecuador





Euthore mirabilis. ♀.  
*McLachlan, Trans Ent Soc, (1876) p 8,*  
Ecuador.





*Helcopteryx rhodiogramma*,  
*Rambur, Hist. Nat. Ins. New.*, (1842) p. 355.  
Natal.





Parastatus indica,  
*Kirby, Ent. Mo. Mag., XVIII, (1881), p. 107.*  
India.







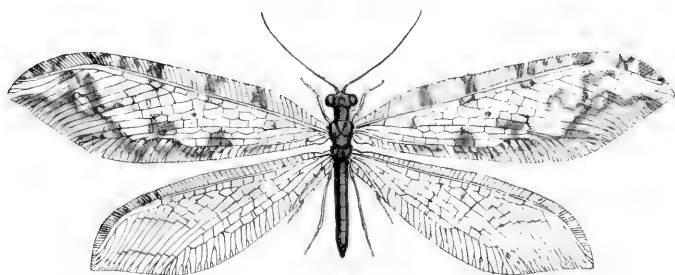
*Graphene aeneovirga*,  
*Distans*, Pro. Zool. Soc. S'91, 703  
 E. Africa





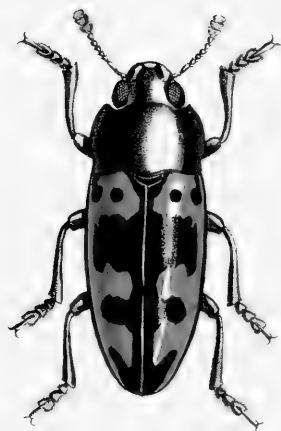
*Protoparce dalica*,  
*Kirby, Trans. Ent. Soc., (1877) p 243*  
Canada





Osmylus Langii,  
*McLachlan, Ent. Mo. Mag., VI. (1870) p. 197.*  
Masuri.

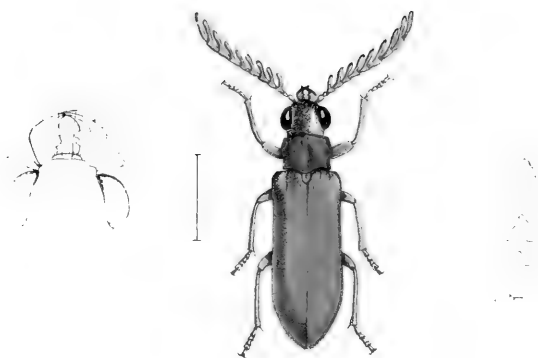




*Pselaphacus nicaraguae*,  
Cocker, *Cist. Ent. L.*, 1875, p. 142  
Nicaragua







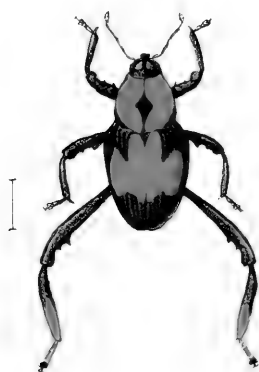
*Genecerus cervinus*,  
*Walker, Coleopt. collected by J. K. Lord, (1871), p. 14*  
Egypt





*Cydianirus ornatus*.  
*Fusca, Ann. & Mag. Nat. Hist.* 12 1864, p.  
 Brazil.





*Copturus eximius*,  
*Pascoe, Ann & Mag. Nat. Hist.*, *V.* (1880) p. 498.  
Colombia.





*Cerambyx leprosus*,  
*Cerambyx leprosus* (Linn.), x 10 =  
 1871







Epania pusio,  
*Pasca et Trans Ent. Soc. III, (1869), p. 567.*  
Singapore



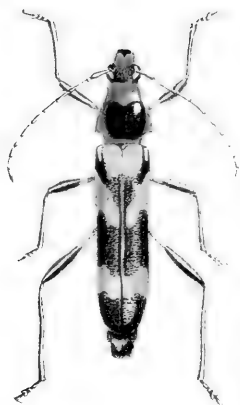


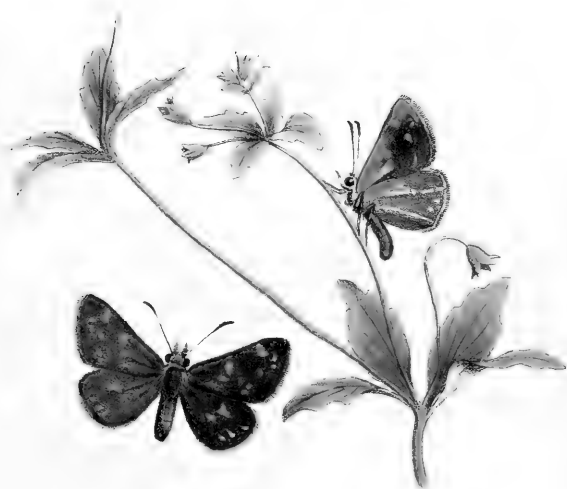
FIGURE 10  
*Phytoecia (Phytoecia) nivalis*  
 New South Wales





*Scolitantides plumbea*,  
*Butler, Trans. Ent. Soc.*, (1881), p. 486.  
Chili





Butleria sotoi,  
*Reed, Mon. Mariposas Chilenas, (1877), p. 86.*  
Chili.





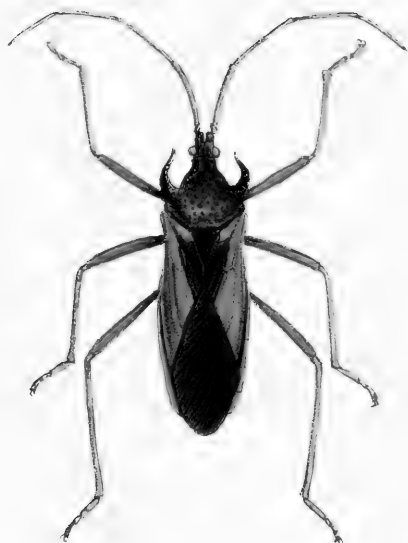
Aid.

81



*Hylotoma interstitialis*,  
*Cameron, Trans. Ent. Soc., (1877), p. 91.*  
India.





*Euagona juno*,  
*Distant, Trans. Ent. Soc., (1881), p. 394*  
Peru





Pœcilopectera consociata,  
*Walker, Journ. of Ent. I, (1862), p. 314.*  
Batchian.

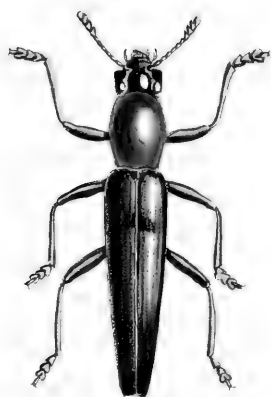




*Chrysochroa Lordi*,  
*Walker, Coleopt. coll. by J.K. Lord, (1871), p. 13.*  
 Egypt

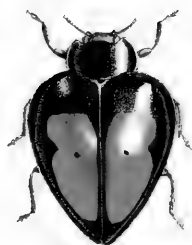






*Caulanthea javanica*,  
*Ann. Entom. Soc. Amer.*, 1875, p. 38.  
 Philippine Is





*Hydrophilus piceus*  
*Hydrophilus piceus*, Linn. v. 5.  
 Erichson



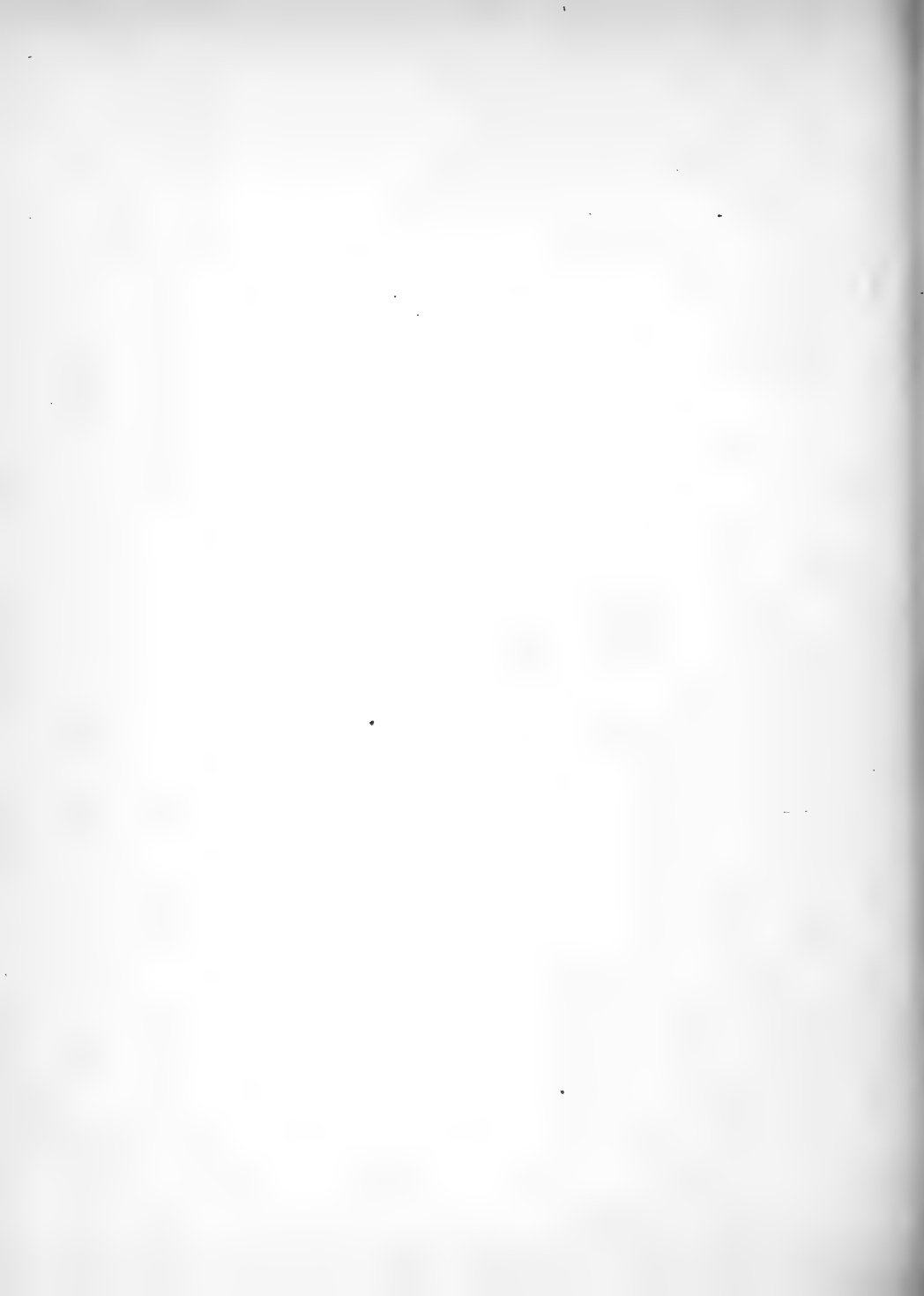


*Butleria canquenenensis*,  
*Reed, Mon. Mariposas Chilenas, (1877), p. 87*  
Chili

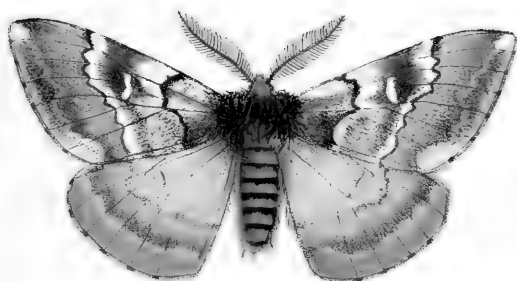




*Antleræa macrophtalma*,  
Küby, *Ent. Mo. Mag.*, XVIII. (1881), p. 146  
West Africa.







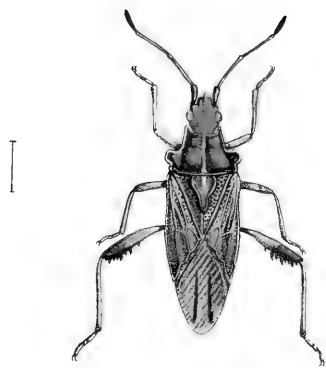
*Catocephala? nigrosignata*,  
*Philippi, Linn. Ent., XIV, (1860), p. 285*  
Chil





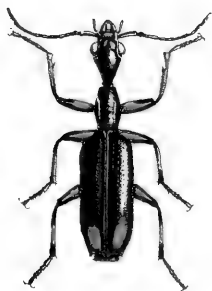
*Van. (lar. indigastria)*  
*At. Lucibata*, Es. *lucibata*, Es. *lucibata*, Es.  
 Trebrina



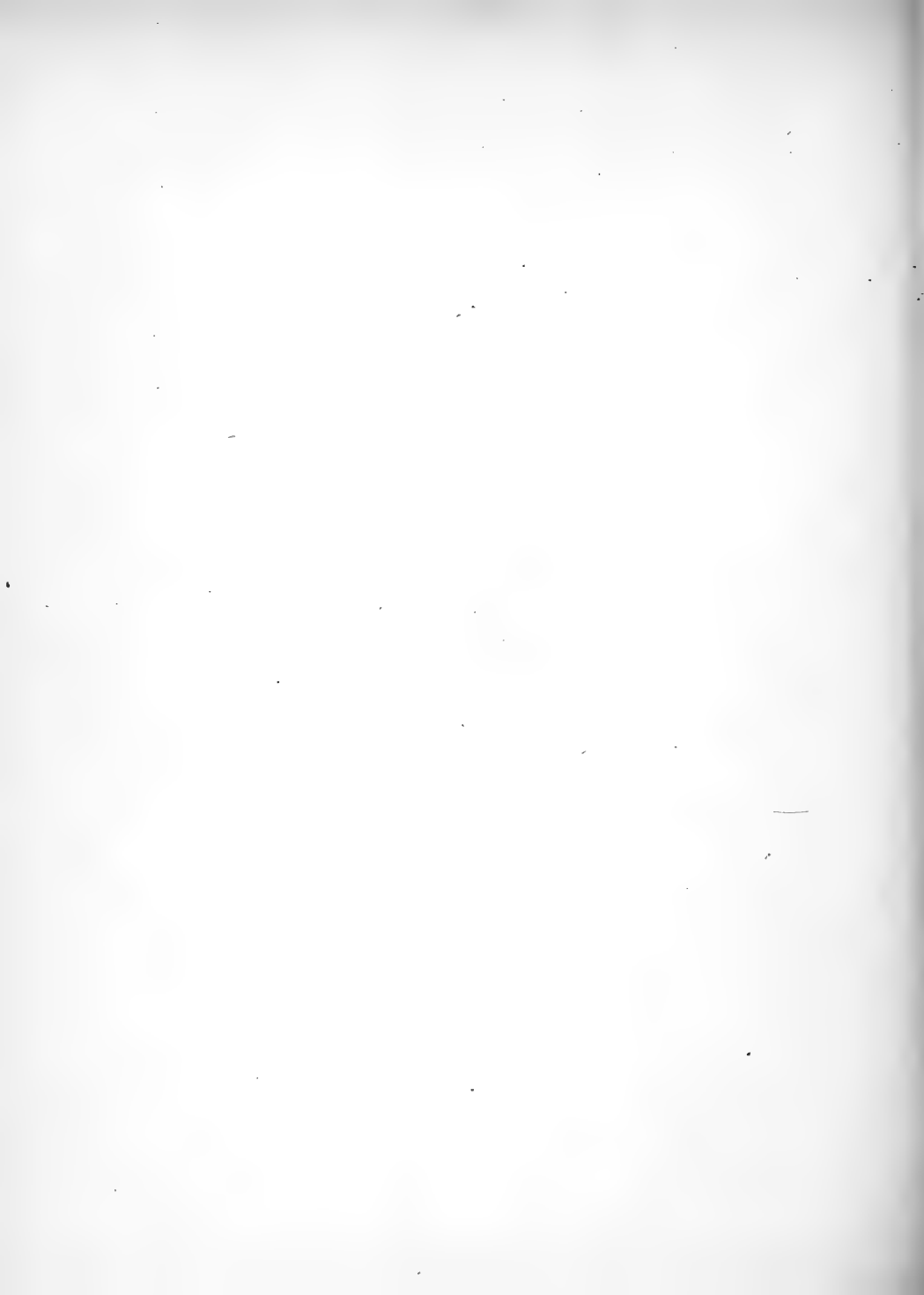


Harmostes incisuratus,  
*Distant, Trans. Ent. Soc., (1881), p. 395.*  
Colombia

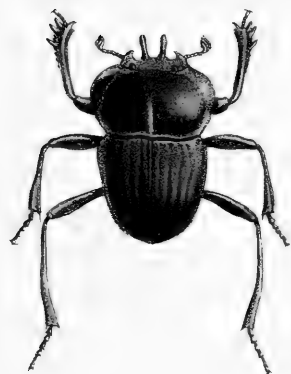




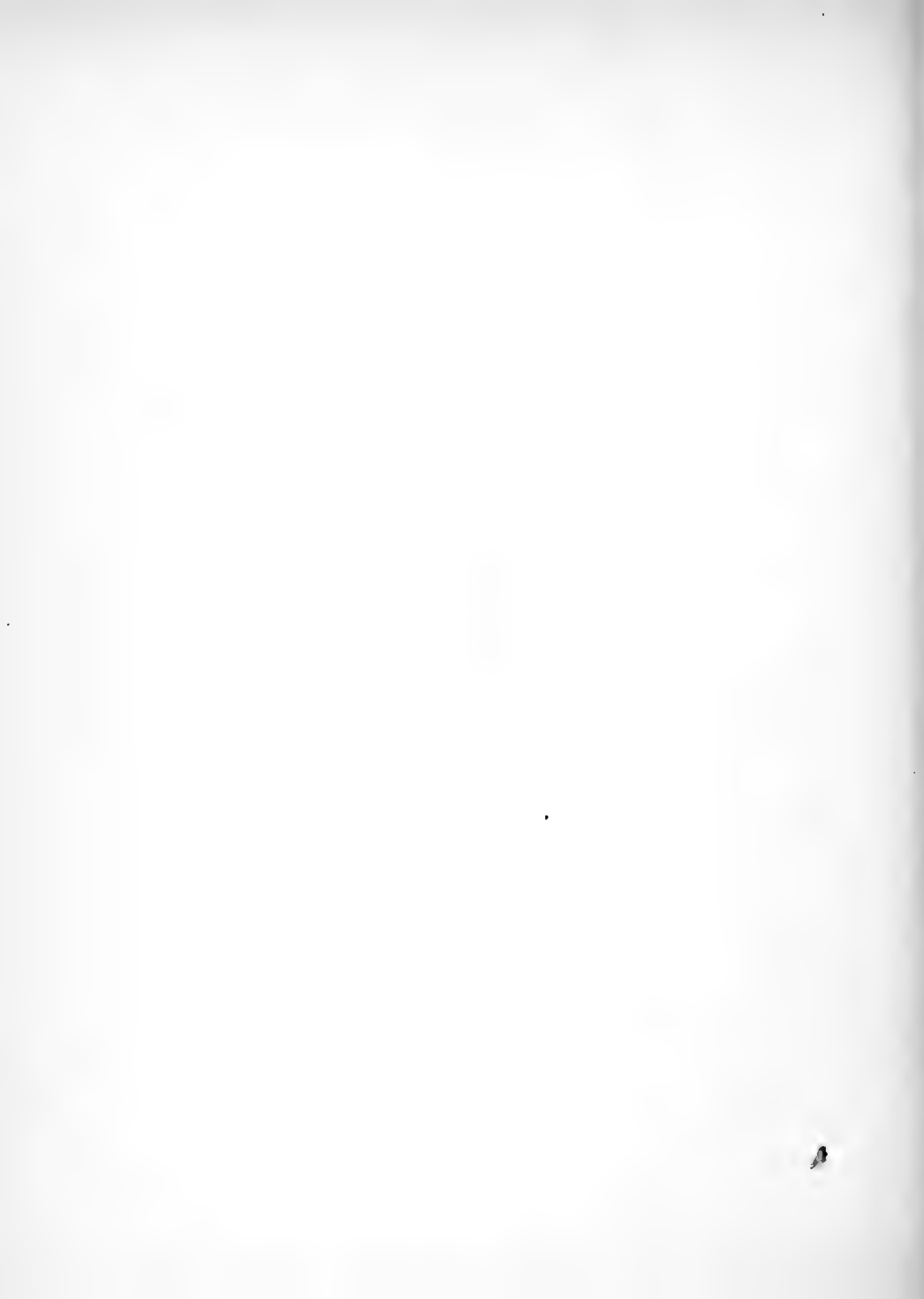
*Gastrolia aliena*,  
*Pascoe, Journ of Ent.* '860, p. 29  
 Moreton Bay

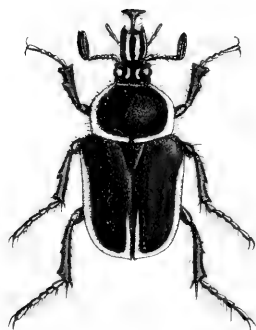




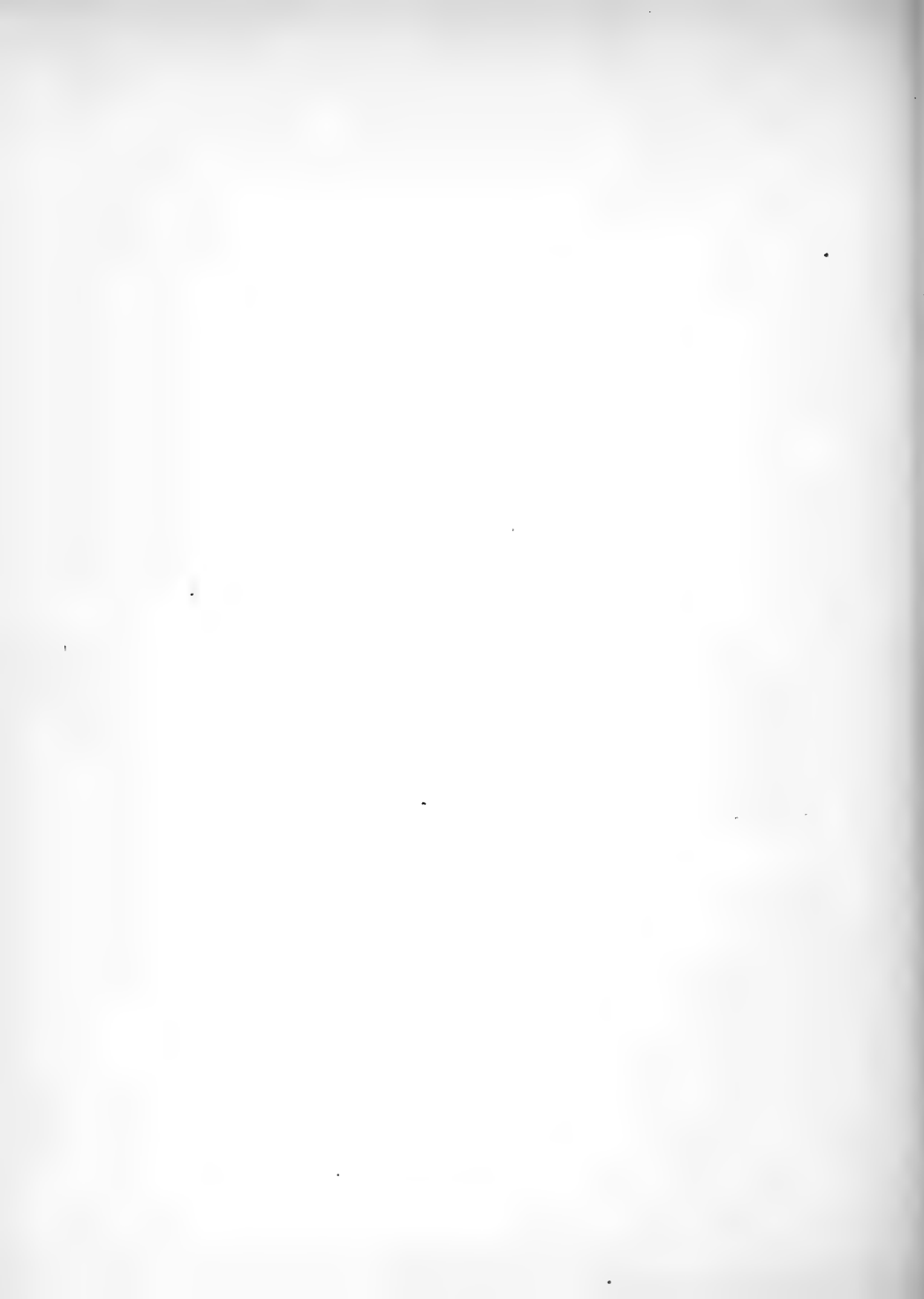


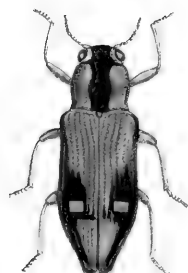
*Cerzoidesmus latipennis*,  
*Pack. Journ. of Ent. II, 1866, 57*  
 Queensland.





*Ischnostoma resurata*,  
*O. Janss. Hist. Ent., II, (n. 78), p. 298*  
 Caffraria





*Nascio carissima*,  
*Interhouse: Ant. & Long. Ant. 1851, 1852, 1853, 1854*  
 North Australia





Butleria vicina,  
*Feed, Mon. Mariposas. Chlenus*, (1877), p. 55.  
Cnib







*Charaxes aspergata*  
*J. exp. Trans Ent Soc, 1877, p. 311*  
 American Entom.





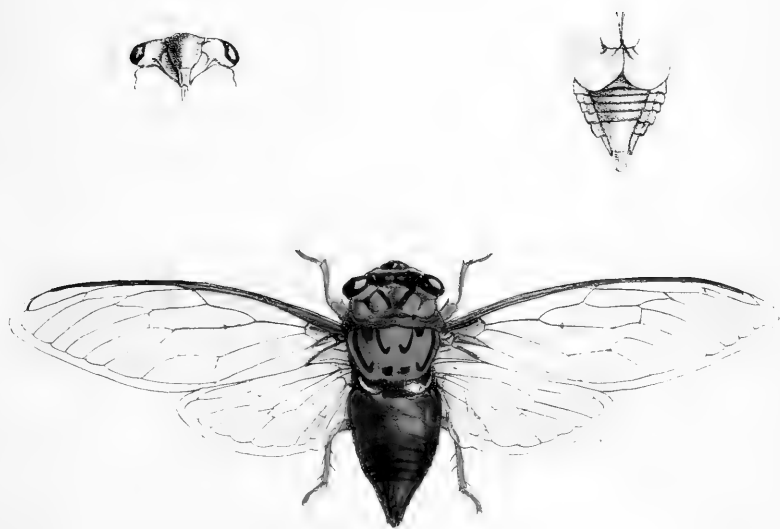
*Crmiscodes crinita*, ♂.  
*Blanchard, Gay's Hist. de Chile, VII, (1854), p. 61.*  
 Chili.



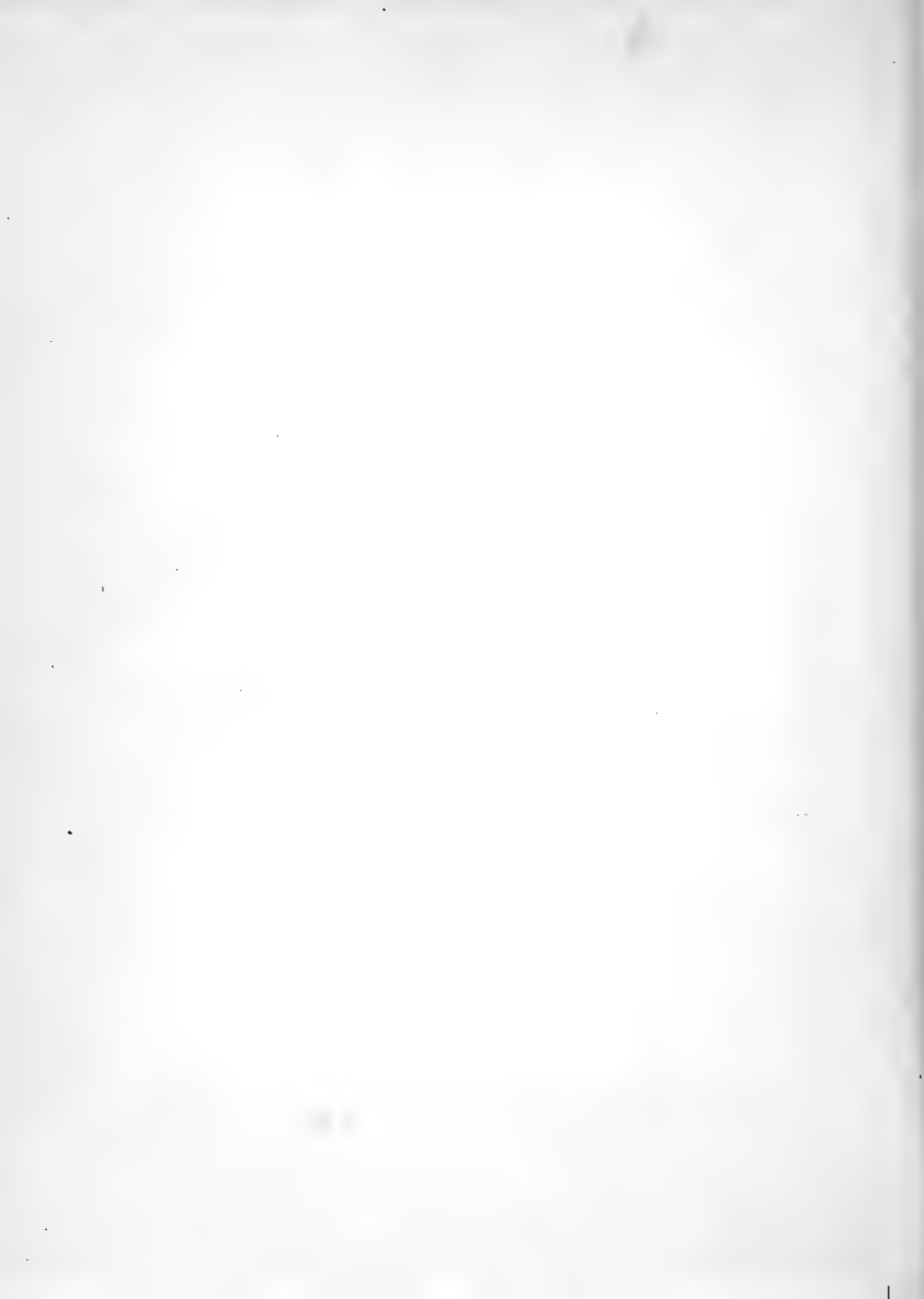


*Aeschna* *harlequin*  
*M. Luchan, Trans Ent Soc 1881, p. 177*  
Japan





*Cicada karudumousa*,  
*Trans. Ent. Soc.*, (1886), p. 647  
Fiji Islands

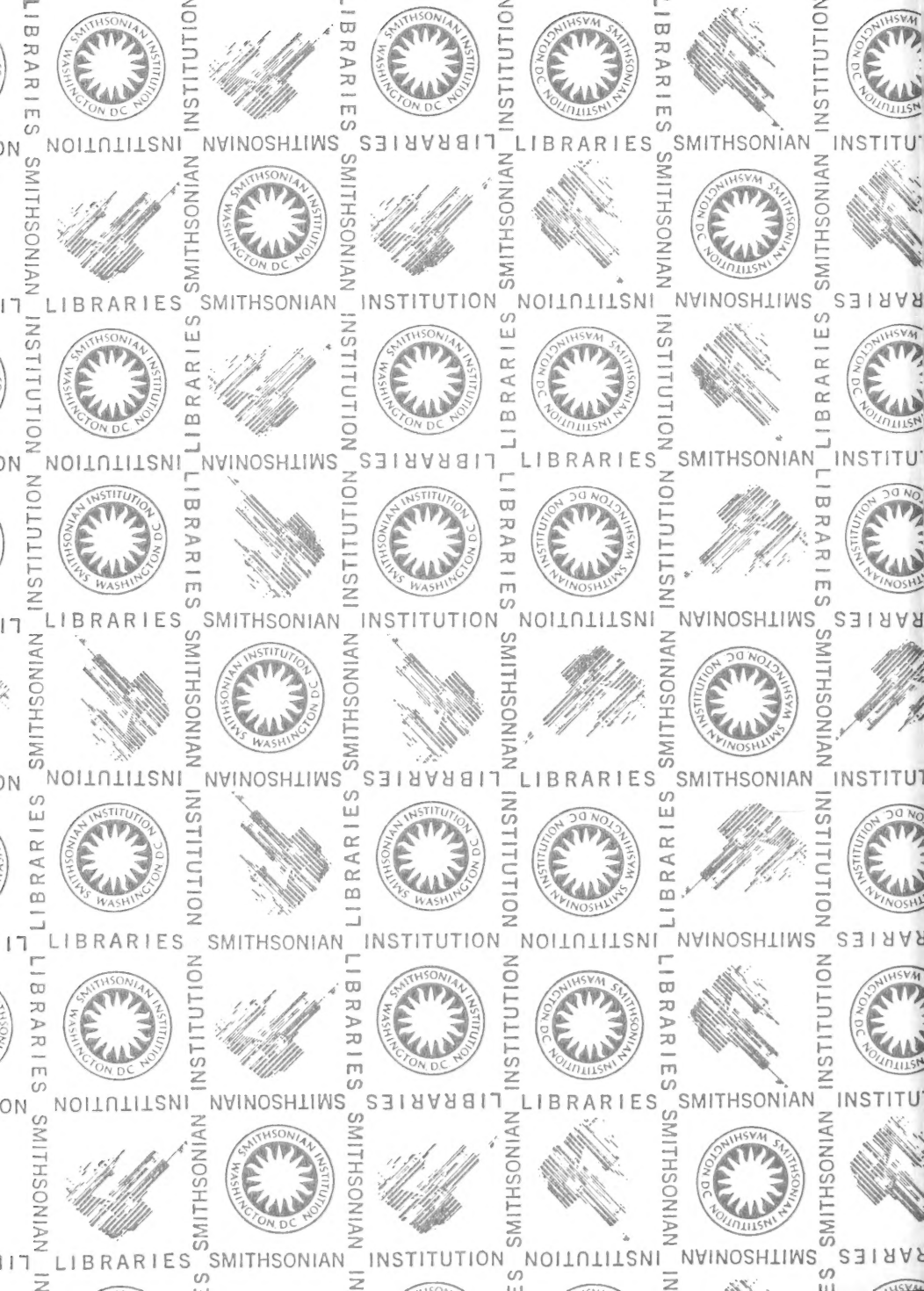












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